



RGET (1-column)	Nummer:
	Blad: 1 van 5

Auteur: Fer Weber Gebr.Wienerstr. 139 5913 XS Venlo Holland

Bij dit spelletje worden de horizontale streepjes van het KIMdisplay gebruikt als bewegend doel. Na starten gaat op de bovenste lijn een streepje lopen van links naar rechts. Toets 3 wordt gebruikt als schietknop. Geschoten wordt op digit 4 van het display.

Bij raak verdwijnt het streepje. Bij mis komt er een streepje bij. Maximaal dus drie streepjes onder elkaar.

.

0000 SEGPTR =segmentpointer z-page use 0001 DIGPTR =digitpointer 0002 SPEED 0003 SEG# =segmentcode 1 0004 SEGOF1 =segment off 0005 SEG2 0006 SEGOF2 0007 SEG3 0008 SEGOF3 0009 MESPT1 =messagepointer 1 000A MESPT2 000B MESPT3 000C MESPT4 000D MESPT5 000E CODEST =segmentcode store 000F REPEAT =repeats message 0010 TEMPX =(not used) 0011 LOOPCO =loopcounter CLD binary mode 0200 D8 START initialization LDA imm 0201 A9 00 0203 85 04 STA SEGOF1 0205 85 06 STA SEGOF2 STA SEGOF3 0207 85 08 LDA imm 0209 A9 03 STA SEGPTR 020B 85 00 020D A9 03 LDA imm STA REPEAT 020F 85 0F LDA imm 0211 A9 80 STA SPEED 0213 85 02 LDA imm Ø215 A9 81 STA SEG1 0217 85 03 LDA imm 0219 A9 C1 STA SEG2 021B 85 05 LDA imm Ø21D A9 C9

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	TAR	GET (1-colum	n)	Nummer:	
					Blad:	2 van 5
021F 85 07		STA SI				
0221 A9 3B 0223 85 09			ESPT1			
0225 A9 41		DA i		€		
Ø227 85 ØA			ESPT2			
Ø229 A9 47		LDA i				
022B 85 0B		DA i	ESPT3			
022D A9 4D 022F 85 0C			ESPT4	· v		
Ø231 A9 53		LDA i				
0233 85 0D			ESPT5		nton	
0235 A9 07	STARTC I		mm DIGPTR	initialize digitpoi	.II cer	
0237 85 0 1 0239 E6 0 1	CONTIN			next digit		
023B E6 01			OIGPTR			
023D A5 01			DIGPTR			
023F C9 15		CMP i		digit "7"?		
0241 F0 F2 0243 A6 00	TOSHOW I		STARTC SECPTR			
0245 B5 00			z-p,X	get segmentcode		
0247 85 ØE		STA C	CODEST	and store		
0249 20 54 02	LITEUP					
024C A9 00		LDA i STA a		digit off		
024E 8D 42 17 0251 4C 74 02			ANYKEY	41914 411		
		LDA i				
0254 A9 7 F 0256 8D 41 17		STA a		padd = 1		
0259 A5 01	3	LDA 1	DIGPTR			
Ø25B 8D 42 17		STA a		digit on		
025E A5 0E		LDA (CODEST	segments on		
0260 8D 40 17 0263 A0 20		LDY :		and wait		
Ø265 88	LOOP	DEY				
0266 DØ FD		BNE 3	LOOP			
0268 60		RTS				
Ø269 A2 8Ø		LDX :				,
026B A0 FF		LDY :	imm			
026D 88 026E D0 FD	LOOP2		LOOP2			
0270 CA		DEX				
0271 D0 F8			LOOP1			
0273 60		RTS				
0274 20 40 1F	ANYKEY					
0277 20 6A 1F			GETKEY	no key?		
Ø27A C9 15	*	CMP	GOKEY	no key.		
027C D0 17 027E C6 02	NOKEY		SPEED			

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				T	ARGET	(1-col	amm)	Nummer:
				assumed the state of the state			ndiserbonnen kerken men den di komes kalan at ingan kerdan galan dapan banan pelalan dan angkan kemb	Blad: 3 van 5
			HOLEMAN DE COM					
0280						LITEUP		
0282						imm	restore speed	(3)
0284						SPEED		
0286	100					SEGPTR		
0288						acc	segx or segofx?	
Ø289	353	-		100		NEXDIG		
Ø28B			a o			SEGPTR		*
Ø28D Ø29Ø			102	NIDVITO		TOSHOW		
0290			MO	NEXDIG		CONTIN		
Ø292		1 1000	02	GOKEY		imm	key "GO"?	
0297				GOREI		KEY3	key Go:	
0299			ØЭ			PAUSE		
0290						START		
Ø29F	*		UL	KEY3		imm	key "3"?	
Ø2A1				1111		ILLKEY	no, then illegal ke	v
Ø2A3		100	02			PAUSE	no, onon analogue no	J
Ø2A6			Con			DIGPTR		
Ø2A8						imm	also digit "4"?	
Ø2AA						MISS	3-8	*
Ø2AC						SEGPTR		*
Ø2AE	-					imm	seg1?	
Ø2BØ						WIN		
Ø2B2					_	imm	seg2?	
Ø2B4	FØ	3D			BEQ	HIT		
Ø2B6	C9	07			CMP	imm	seg3?	
Ø2B8	F0	39			BEQ	HIT		
Ø2BA	A5	00		MISS	LDA	SEGPTR		
Ø2BC					PHA		save segmentpointer	on stack
Ø2BD	A6	09				MESPT1		
02BF			03			MESSHO		
0202				MISSCO			return segmentpoint	er
0203						SEGPTR		
0205						SEGPTR		
Ø2C7						SEGPTR		
0209						SEGPTR	19	
Ø2CB						imm	lose?	1
Ø2CD						LOSE	10002	
Ø2CF						imm	lose?	
Ø2D 1			Ø0			LOSE		
Ø2D3	40	つつ	02		JIII	STARTC		
Ø2D6				LOSE		MESPT5		
Ø2D8			03	r.		MESSHO		
Ø2DE						REPEAT		
Ø2DI						LOSE		
Ø2DF						PAUSE		
02E2	4C	00	02		JMP	START		

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02E5 A5 00 II 02E7 48 02E8 A6 0B 02EA 20 12 03 02ED 20 69 02 02F0 4C C2 02	LLKEY LDA SEGPTR PHA save segmen LDX MESPT3 JSR MESSHO JSR PAUSE JMP MISSCO	tpointer on stack
02F5 48 02F6 A6 0A 02F8 20 12 03	IT LDA SEGPTR PHA save segmen LDX MESPT2 JSR MESSHO ITCON PLA return segmen STA SEGPTR DEC SEGPTR	ntpointer on stack
0300 20 69 02 0303 4C 35 02 0306 A6 0C W 0308 20 12 03 030B C6 0F 030D D0 F7	JSR PAUSE JMP STARTC IN LDX MESPT4 JSR MESSHO DEC REPEAT BNE WIN	
		loopcounter
0314 85 11 0316 A9 07 D 0318 85 01	STA LOOPCO IGSTA LDA imm initialize STA DIGPTR	digitpointer
	EGSTA LDA abs,X get segment STA CODEST INC DIGPTR next digit INC DIGPTR LDA DIGPTR	code
0325 C9 15 0327 F0 0C	CMP imm digit "7"? BEQ MESSCO RSHOW JSR SHOW	
032C A9 00 032E 8D 40 17 0331 E8 0332 4C 1A 03	LDA imm segments of STA abs INX JMP SEGSTA	îf ,
0335 CA CA CA 0338 CA CA CA 033B C6 11 033D D0 04 033F 20 69 02 0342 60	DEX DEX DEX return Xreg DEX DEX DEX state DEC LOOPCO BNE AGAIN JSR PAUSE RTS	gister to initial
. 0343 4C 16 03 A	GAIN JMP DIGSTA	
messages in Dutc 0346 80 F1 BF BE 034C 80 9E BE 86	F8 80	

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0352 80 F1 BF F9 86 80 0358 80 F6 BF F9 D0 F7 035E ED BE F1 F1 86 F9

alternative messages in English:

 0346
 B7
 BF
 80
 F4
 86
 F8

 034C
 80
 F4
 86
 F8
 80
 80

 0352
 F1
 BF
 BE
 B8
 80
 80

 0358
 F6
 9C
 D0
 D0
 F7
 EE

 035E
 ED
 F8
 9C
 F3
 84
 DE

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TARGET (6-column)	Nummer:
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Nadat TARGET 1-column draaiend was gekregen, dacht ik het even uit te breiden tot alle kolommen van het KIM-display....

Nou, mooi mis! Het werd een heel nieuw opgezet programma. Nu moest alles dat op het display komt gemultiplexed worden. Verder moest in het geheugen een "speelveld" (STATE) gemaakt worden waarin alle veranderingen gepleegd worden en waaruit de gegevens voor het display gehaald worden (SEGST). Nu ik toch bezig was werden er maar meteen twee spelletjes ineen gedraaid: zowel een "uit"schiet- als een "aan"schietspelletje. Verder werd er nu voor gezorgd dat pas na het loslaten van een toets het programma wordt vervolgd.

Na het starten van het programma komt nu de vraag "a of b" op het display. Men kan nu met toets "A" kiezen voor het spelletje "uit"schieten, of met toets "B" voor het spelletje "aan"schieten. Schietknop is weer toets "3" en schietdoel is ook weer digit 4. Spel A: winst als alle streepjes uit, dus uitschieten van

aan-streepjes op digit 4.

Spel B: winst als alle streepjes aan, dus aanschieten van uit-streepjes op digit 4. Bv raak schieten op een kolom met al drie streepjes aan levert verlies op.

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z-page use

0000 DIGIPT =digitpointer 0001 SEGMPT =segmentpointer 0002 STATPT =statepointer 0003 STATST =state store 0004 LOOPCO =loopcounter 0005 REPEST =repeat store 0006 ONOFST =on/off store 0007 OFFPTR =offpointer 0008 MESPT1 =messagepointer 1 0009 MESPT2 000A MESPT3 000B MESPT4 000E PLAYST =play a or b store 000F TEMPPL =temporary store play a or b 0010 SEGST1 =segmentcode store, digit 1 0011 SEGST2 0012 SEGST3 0013 SEGST4 0014 SEGST5 0015 SEGST6

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5	TARGET (6-column	Nummer:
		Blad: 2 van
	0017 STATE2 0018 STATE3 0019 STATE4 001A STATE5 001B STATE6 001C STATE7 001D STATE8 001E STATE9 001F STATEA	=state of playing field =temporary key store
0030 20 40 13 0033 20 6A 13 0036 85 21 0038 C9 15 003A F0 09 003C 20 6A 13 003F C5 21 0041 F0 F9 0043 A5 21 0045 60	F JSR GETKEY STA KEYSTO CMP imm BEQ TORTS	this is subroutine that waits till key is released no key?
0046 A2 0B 0048 95 15 004A CA 004B D0 FB 004D 60	FSTATE STA z-p,X	this is subroutine that fills STATE1 to STATEB in page 0 with value in accumulator
004E 20 65 0 0051 20 A0 0 0054 A5 04 0056 F0 08 0058 A6 01 005A 20 6D 0 005D 4C 54 0 0060 C6 05 0062 D0 EA 0064 60	JSR MESSHO LOOPC LDA LOOPCO BEQ REPEAT LDX SEGMPT JSR DIGSTA	get loopcounter get segmentpointer
0065 A2 80 0067 A0 FF 0069 88 006A D0 FD 006C CA 006D D0 F8 006F 60	PAUSE LDX imm AA LDY imm A DEY BNE A DEX BNE AA RTS	
0070 A4 02 0072 A6 01	TOSHOW LDY STATPT LDX SEGMPT	get statepointer get segmentpointer



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TARGET (6-column)	Nummer:
	Blad: 3 vam 8
0074 20 57 03	
0080 A9 0F RSTART LDA imm initialize variables 0082 85 01 STA SEGMPT 0084 A9 1A LDA imm 0088 A9 F9 LDA imm 0088 A9 F9 LDA imm 0080 A9 E1 LDA imm 0080 A9 E1 LDA imm 0090 A9 E7 LDA imm 0092 85 09 STA MESPT1 0094 A9 ED LDA imm 0096 85 0A STA MESPT3 0098 A9 F3 LDA imm 0090 A9 80 LDA imm 0090 A9 81 LDA imm 0090 A9 81 LDA imm 00A3 85 1B STA STATE6 00A5 A9 0A LDA imm 00A7 85 05 STA REPEST 00A9 60 RTS	z-p
0200 20 80 00 START JSR RSTART start and initialize 0203 EA EA EA NOP NOP NOP 0206 A5 08 PLAYAB LDA MESPT1 get messagepointer 1	
0208 85 02 STA STATPT to statepointer 020A 20 A4 03 JSR MESHOC 020D 20 30 00 ANYKEY JSR INKEY	
0210 C9 15 CMP imm no key? 0212 D0 12 BNE KEYA 0214 A5 04 CONTIN LDA LOOPCO get loopcounter 0216 F0 08 BEQ BACK 0218 A6 01 LDX SEGMPT get segmentpointer 021A 20 6D 03 JSR DIGSTA	
Ø21D 4C ØD Ø2 JMP ANYKEY Ø22Ø 2Ø 77 ØØ BACK JSR SEGSTA Ø223 4C ØD Ø2 JMP ANYKEY	
0226 C9 0AKEYACMP immkey A?0228 D0 05BNE KEYB022A 85 0ESTA PLAYST store play a	
Ø22C 4C 35 Ø2 JMP ONCONT Ø22F C9 ØB KEYB CMP imm key B? Ø231 DØ E1 BNE CONTIN	
0233 85 0E STA PLAYST store play b	

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	Blad: 4 van 8
0235 A5 03 ONCONT LDA STATST get state store 0237 C9 14 CMP imm done? 0239 D0 02 BNE DONE	
023B A9 1ALDA immstatepointer to sta023D 85 03DONESTA STATST to state store023F 85 02STA STATPT and to statepointer	
0241 A9 01 LDA imm initialize on 0243 85 06 STA ONOFST to on/off store	
0245 20 70 00 JSR TOSHOW 0248 20 30 00 KEY JSR INKEY 024B C9 15 CMP imm no key?	
024D D0 24 BNE GOKEY 024F A5 04 LDA LOOPCO get loopcounter 0251 F0 08 BEQ ONOFF	
0253 A6 01 LDX SEGMPT get segmentpointer 0255 20 6D 03 JSR DIGSTA 0258 4C 48 02 JMP KEY	
025B A5 06ONOFF LDA ONOFST get on/off025D F0 D6BEQ ONCONT025F A5 02LDA STATPT get statepointer	
0261 85 03STA STATST to state store0263 C6 03DEC STATST - 10265 A5 07LDA OFFPTR get offpointer	
0267 85 02 STA STATPT to statepointer 0269 A9 00 LDA imm initialize off 026B 85 06 STA ONOFST to on/off store 026D 20 A4 03 JSR MESHOC 0270 4C 48 02 JMP KEY	
0273 C9 13 GOKEY CMP imm key GO? 0275 D0 03 BNE KEY3 0277 4C 00 02 JMP START	
027A C9 03 KEY3 CMP imm key 3? 027C D0 1A BNE ILLKEY no, therefore illeg 027E A5 13 LDA SEGST4 digit 4 lit? 0280 D0 43 BNE HIT	al key
0282 A5 0EMISSLDA PLAYST no, get play0284 85 0FSTA TEMPPL store temporarily0286 C9 0ACMP imm play A?	,
0288 D0 04BNE MISSC028A A9 0BLDA immyes, change to play028C 85 0FSTA TEMPPL and store temporari028E A4 03MISSC LDY STATST get state store0290 A6 01LDX SEGMPT get segmentpointer	
0292 20 57 03 JSR FILL 0295 4C C9 02 JMP HITCON	
0298 A5 09ILLKEY LDA MESPT2 get messagepointer029A 85 02STA STATPT to statepointer	2

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								•	
Ø29C	20	4E	00		JSR	MESCON			
029F	A9	ØA			LDA	imm	restore repeat		
Ø2A1	85	05			STA	REPEST	*		
Ø2A3	A5	ØE			LDA	PLAYST	get playstore		
Ø2A5						imm	play A?		*
Ø2A7						ILCONT			
Ø2A9						imm	initialize 3segs		
Ø2AB						ISTATE			
Ø2AE			N5			ONCONT			
Ø2B1	-			ILCONT			initialize 1segs		
Ø2B3			ИN			ISTATE		7 - 1-1	
Ø2B6	08:					imm	initialize Osegs (b	lank)	
Ø2B8						STATE2	fill even states		
Ø2BA						STATE4			
Ø2BC Ø2BE						STATE6 STATE8			
02C0						STATEA			
Ø2C2			П2			ONCONT			
			2	TITM.			mat mlaw		
Ø2C5 Ø2C7				HIT		PLAYST TEMPPL	get play store temporarily		
0209				HITCON			store temporarriy		
Ø2CB				HILLOON		imm	play A?		
Ø2CD						B3SEGS	pray A.		
Ø2CF						SEGST4	yes, what's in digi	t 4?	
Ø2D1						imm	Øsegs (blank)?		
Ø2D3						MAKE1S			
Ø2D5	C9	81		*	CMP	imm	1segs?		
Ø2D7	DØ	08			BNE	A2SEGS			
Ø2D9						imm	yes, load Osegs (bl		
Ø2DB			200				and change playing		
Ø2DE						ALLBLA			
Ø2E1				A2SEGS			2segs?		
02E3				251 200 4 6		A3SEGS	2		
Ø2E5							yes, load 1segs	£: ~14	
02E7						STATCH	and change playing	Tield	
02EA 02ED				A3SEGS		ONCONT	load 3segs		
Ø2EF			ØЗ	H)SEGS		STATCH		field	y.
Ø2F2						ONCONT	mur ourning brad rug	11014	
Ø2F5	A2	15		ALLBLA	LDX	imm	load state 1 -1		
Ø2F7				LOOPA	INX	5			
Ø2F8				li di		imm	all states done?		
Ø2FA						WIN			161
Ø2FC					-	z-p,X	no, get state		
Ø2FE				v .		imm	Osegs (blank)?		
0300						LOOPA			
0302	4C	35	02		JMP	ONCONT			

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TARGET				RGET	(6-colum	nm.)	Nummer:	*
					a		Blad:	6 var
-						gan og sam og sen er e		
0305	۸5 -	13	BASECS	T.DA	SECSTA	what's in digit 4?		
0307			DJOLGO		imm	3segs?		E .
0309					LOSE	,		162
030B				-	imm	2segs?		
030D	DØ I	ØE		BNE	B1SEGS			
030F	AØ (C 9			imm	load 3segs		
0311	20	B7 Ø	3	JSR	STATCH	and change playing f	ield	
0314					PLAYST			
0316	Character 1				imm	play A?		
0318					ALL3S	check if all segment	s lit	
031A					ONCONT			
031D			B1SEGS			1segs?		
031F					BØSEGS	7		
0321			*		imm	load 2segs	4014	
0323					STATCH	and change playing f	rera	
0326					ONCONT	load 1segs		
0329 032B					STATCH		ield	
032E					ONCONT	and change praying r	1014	
Ø331		15	ALL3S		imm	load state 1 -1		
0333			LOOPB	INX		77 1-1 10		
0334					imm	all states done?		
0336					WIN	no mot nowt state		
0338					z-p,X imm	no, get next state 3 segs?		
033A 033C					LOOPB	Jacks:		
Ø33E				(30)	ONCONT			
0341			WIN			get messagepointer 3		
0343	-		7		STATPT	to statepointer		
0345		-			MESCON START			
0348	40	ש שש	2	JMP	START			
034B			LOSE		MESPT4			
Ø34D					STATPT	to statepointer		
034F					MESCON			
0352	4C	00 0	2	JMP	START			
0357	C8		FILL	INY		statepointer +1		6
0358		00 0			abs,Y	get segmentcode		
Ø35B				INX		segmentpointer +1		
Ø35C	95	00			z-p,X	store segmentcode		
035E					imm	done?		ž
0360		F5			FILL			Ē
0362	60			RTS				
0363	A9	30	SHOW	LDA	imm	initialize loopcount	er	
0365					LOOPCO	_		8
0367					ONOFST	get on/off		*
0369				BNE	DIGSTA			

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				TAR	GET	(6-colum	na)	Nummer:
	S BOWNINGS	. 100/2016/12						Blad: 7 van
	10000							
			(4)					
Ø36B						LOOPCO	make offperiod half	
036D				DIGSTA			initialize digitpoir	iter
036F				TTGG01		DIGIPT	di midmaintem 10	
0371				DIGCON		DIGIPT	digitpointer +2	
0373						DIGIPT	digitacinten	
0375						DIGIPT	get digitpointer digit "7"?	
0377					CMP		digit "/":	
0379				LITEUP		LOOPCN		
037B				PITEOR		abs	padd =1	
037D			1 /			DIGIPT	get digitpointer	
Ø38Ø Ø382			17		STA		digit on	
0385		42	1.1		INX	aus	segmentpointer +1	
0386		0101				z-p,X	get segmentcode	
0388			17			abs	segments on	
Ø38B		1,50	1.1			imm	and wait	
Ø38D) 0		TIAW	DEY	7		
Ø38E		ਹਾਜ		11177		WAIT		
0390						imm	segments off	
0392			17		STA			
0395						DIGCON		
.0398				LOOPCN	LDA	imm	digits off	
Ø39A					STA			
Ø39D					DEC	LOOPCO	loopcounter -1	
039F	60				RTS			
03A0	A 9	01		MESSHO	T.DA	imm	initialize on	
Ø3A2				111100110		ONOFST	to on/off store	
Ø3A4				MESHOC		STATPT	get statepointer	
Ø3A6				11200		SEGMPT	get segmentpointer	
Ø3A8		-		MESFIL			statepointer +1	
Ø3A9		00	03			abs,Y	get segmentcode	
Ø3AC					INX		segmentpointer +1	
Ø3AD		00			STA	z-p,X	store segmentcode	
Ø3AF					CPX	imm	done?	
Ø3B1					BNE	MESFIL		
Ø3B3	20	77	00			SEGSTA		
Ø3B6	60				RTS			
Ø3B7	A 6	03		STATCH	LDX	STATST	get state	5
Ø3B9						INX	statepointer +4	
Ø3BB						INX		
Ø3BD					NOP			
Ø3BE						z-p,X	load xsegs in state	
Ø3CØ						imm		
Ø3C2						TODEC		× ×
Ø3C4						imm		
Ø3C6					BEQ	TODEC		. 27
Ø3C8						imm		,
Ø3CA					BEQ	TODEC		

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	Blad: 8 van 8
03CC E0 1B	
messages in Dutch: 03E2 F7 80 BF F1 80 FC message 1 03E8 F1 BF F9 86 80 80 message 2 03EE 80 F6 BF F9 D0 F7 message 3 03F4 ED BE F1 F1 86 F9 message 4 03FA 00 00 00 00 00 00 off alternative messages in English:	
03E2 F7 80 BF D0 80 FC message 1 03E8 F1 BF BE B8 80 80 message 2 03EE F6 BE D0 D0 F7 EE message 3 03F4 FC BE ED F8 F9 DE message 4 03FA 00 00 00 00 00 00 off	

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AANVULLINGEN OP MICROCHESS 1.0	Nummer:				
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Fer Weber, Gebr. Wienerstr. 139, 5913 XS Venlo, Holland.

Uitgekeken op de vijf gegeven openingen bij Microchess 1.0 voor de KIM-1? Ik heb er eens een aantal bijeengesprokkeld en gecodeerd. Val niet direct over me heen als het bij tijd en wijle niet de meest ultramoderne versie is... ik ken ook alleen maar de spelregels. In ieder geval goed voor variaties.

	177	44	QD	22	45	国 日	33	34	02	35	45	区区	45	42	OF.	24	52	20	7,	64	90	14			2 2	7	- K	- 0		
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Eerste kolom speelt KIM met wit, tweede kolom speelt KIM met zwart. r = rokade, dus na gegeven zet nog een extra zet intoetsen (+ F!) Repertoire witspeler

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18 juni 1979

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*		1	4 2 2 3		99	25	99	56	55	16	76r	16r	42	23	52	22	×	30	7	35			Tads		
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at the state of th	Hollands	-	4-74	4	1-21	5		5	1-22	9	5-011	3-71r	M	4-54	N	5-55	~	5-47	7	5-45		+	arton radan		
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AANVULLINGEN OP MICROCHESS 1.0	
	Blad: 6 van 6

Orang Octan (Englisch)

(00DB) CC 41

1 16-36 0A 61-41 0F

63-43 36 14-34 34

2 05-16 05 72-61 0C

62-52 16 15-25 25

4 02-52 0 44

72-36 33 05-41 41

71-63 35 06-14 44

71-63 35 06-14 14

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```
**** FILE 01 ****
0010:
0020:
                          PATCHES MICRO-ADE DEEL 6.
0030:
0040:
0050:
                         AUTHOR S T WOLDRINGH
                       ş
0060:
                                 KLIEVERINK 619
0070:
0080:
                       ş
                                 AMSTERDAM.
0090:
                       ŷ
0100:
                        IN DE 30 FILES WORDEN DE VOLGENDE PATCHES
0110:
0120:
                          OF MICRO-ADE BESCHREVEN.
0130:
                             BY DE CASETTE-LOAD ROUTINES WERD 1 CHARACTER
0140:
                         1.
                             VAN DE BUFFER VERLOREN , ZOWEL BY HET
0150:
                             H-COMMANDO ALS OOK BY DE G NN,MM.
0160:
0170:
                             IN DE EDITOR IS HET ADRES VAN DE ROUTINE
0180:
                       â
                         2.
                             BUFIN VERKEERD GEWEEST.
0190:
0200:
                       ĝ
                         3.
                             BY HET T3 COMMANDO WORDT NU ZOWEL DE
0210:
                             NIEUWE ALS OOK DE OUDE GRENZEN
0220:
                       ÷
                             UITGEFRINT.
0230:
02401
                       ŷ
                       *
                             NA EEN CARRIAGE RETURN WORDEN 3 'NULL'
0250:
                        4.
                             CHARACTERS GEPRINT , OM DE TTY DE
0260:
                             TYD TE GEVEN NAAR HET BEGIN VAN DE
0270:
                             REGEL TERUG TE KEREN.
0280:
0290:
                         5.
                             BY HET STARTEN VAN MICRO-ADE WORDT OM DE
0300:
                       $
                             DATUM GEVRAAGD ; DEZE WORDT BY DE PASS-2
0310:
                      ŷ
                             EN DE SYMBOL-TABLE PRINTS IN
0320:
                             DE KOP GEPLAATST.
0330:
0340:
                             BY T EN T1 WORDEN PAGINA'S GEPRINT, MET
0350:
                       ŝ
                         6.
                             PAGINA-NUMMERS ED.
0360:
0370:
                             AAN HET EINDE VAN PASS-2 EN NA HET
0380:
                      ŷ
0390:
                             PRINTEN VAN DE SYMBOL-TABLES WORDT DE
                             PAGINA AFGEMAAKT MET BLANCO REGELS
0400:
                             (KOST SOMS WEL WAT PAPIER).
0410:
0420:
                             INDIEN BY PASS-2 PRINT? N GEGEVEN
0430:
                       9
                        8.
                             WORDT, WORDT BY BEEINDIGING VAN PASS-2
EEN '.' GEPRINT OM AAN TE DUIDEN , DAT ER
0440:
0450:
                             WEER ID'S INGETIKT KUNNEN WORDEN.
0460:
0470:
                        9.
                             DE 24K RAM WERKGEBIED HEEFT EEN NIEUWE
0480:
                       ŝ
0490:
                             VERDELING GEKREGEN TUSSEN SOURCE, TABLES
0500:
                             EN OBJECT RUIMTE.
0510:
                         10. DE PAGINAGROOTTE VAN DE PASS-2 LISTING EN
0520:
                             INDELING ERVAN ZYN GEWYZIGD (OA 2 CRLF'S
0530:
                             NA DE KOP ; 60 REGELS/BLAD EN 4 CRLF'S VOOR
0540:
                             DE VOLGENDE KOP).
0550:
0560:
                             TOEVOEGEN VAN HET T4 EN T5 COMMANDO.
0570:
                             ZOWEL MET HET T4 (GESORTEERD OF DE
0580:
                       ŝ
                             NAAM VAN DE SYMBOLS) ALS OOK MET HET T5
0590:
                       9
                             (GESORTEERD OF DE ADRESSEN VAN DE SYMBOLS)
0600:
```

```
0610:
                             WORDT NAAST HET SYMBOL EN ZYN ADRES OOK
                       4
0620:
                       ĝ
                             DE FILENR + REGELNR GEPRINT , WAAR HET
                             SYMBOL GEDEFINIEERD IS EN DAARNA ALLE
0630:
                              FILENR'S + REGELNR'S , WAAR HET SYMBOL
0640:
                       ŝ
0650:
                             GEBRUIKT WORDT.
06603
                         12. BY PASS-2 WORDT DE VRAAG 'XREF?'
06701
                       ĝ
                             GESTELD # INDIEN Y GEANTWOORD WORDT,
0680:
                             WORDEN DE XREF-ENTRIES AAN DE XRE-TABLE
0690:
0700:
                             TOEGEVOEGD, ANDERS NIET. OH DUS ALLEN DE
0710:
                              ID'S-REGELNR'S TE VERKRYGEN , WAAR EEN
0720:
                             EEN SYMBOL GEDEFINIEERD IS , MOET N GEGEVEN
0730:
                              WORDEN. WORDT EEN PASS-2 HERHAALD ZONDER
                             PASS-1 , DAN MOET OOK N GEANTWOORD
0740:
                       ÷
                             WORDEN , OMDAT ANDERS ALLE XREF'S VAN
                       ş
0750:
                             PASS-2 DUBBEL IN TABEL ZOUDEN KOMEN,
0760:
0770:
0780:
                       ŝ
                         OPMERKINGEN.
                         - DE SYMBOLTABLE ENTRIES ZYN 8 BYTES
0790:
                       ŝ
0800:
                       9
                           LANG GEWORDEN TEGEN VROEGER 6 BYTES.
                           PER XREF-ENTRY WORDEN 5 BYTES GEBRUIKT
0810:
0820:
                         - BY DE NU GEBRUIKTE VERDELING VAN HET RAM
                           (5K SYMBOL EN 14K XREF) KUNNEN 640 SYMBOLS
0830:
                           EN 2867 XREF-ENTRIES OPGENOMEN WORDEN.
0840:
0850:
                           MOCHT DE XREF-TABLE OVERLOPEN DAN WORDT DIT
0840:
                           NIET GEMELD , DOCH WEL VOORKOMEN.
0870:
                         - BY ALLE PATCHES IS ER VAN UIT GEGAAN, DAT
                       ŝ
0880:
                           DE PATCHES OF MICRO-ADE DEEL 1 TM DEEL 5
0890:
                       ĝ
0900:
                           AANGEBRACHT ZYN (ZIE VORIGE KIMKENNERS)
0910:
                       9
                           IS DIT NIET GEBEURD , DAN ZAL GEANALISEERD
                       4
                           MOETEN WORDEN WAAR DEZE PATCHES
0920:
                           PRECIES AANGEBRACHT DIENEN TE WORDEN.
0930:
0940:
                       ô
0010:
                       ŷ
                             ****
                                     FILE 02 ****
0020:
                          IN PATCHES USED FIELDS AND
0030:
0040:
                          SUBROUTINES.
0050:
0060:
               15 00
                       NLO
                                     $0015
0070:
               16 00
                       NHI
                              *
                                     NLO
                                             +01
0080:
               1A 00
                       LOPAR
                              *
                                     $001A
0090:
               1D 00
                       HIPAR
                              *
                                     $001D
0100:
               31 00
                       YCOM
                              *
                                     $0031
               3F 00
0110:
                       SLO
                              *
                                     $003F
0120:
               40 00
                       SHI
                               *
                                     SLO
                                             +01
0130:
               41 00
                       ELO
                              *
                                             +01
                                     SHI
0140:
               42 00
                       EHI
                              *
                                     ELO
                                             +01
0150:
               4C 00
                       PASS
                              *
                                     $004C
               41 00
0160:
                       PRFLAG *
                                     PASS
                                             +01
0170:
               54 00
                       CNT
                              *
                                     $0054
               55 00
0180:
                       XL.O
                              *
                                     CNT
                                             +01
0190:
               55 00
                       PAGE
                              *
                                     XL.O
0200:
               56 00
                       XHI
                              *
                                     PAGE
                                             +01
               56 00
                       FGN
                              *
0210:
                                     XHI
                              *
0220:
               62 00
                       ID
                                     $0062
0230:
               63 00
                       PMODE
                              *
                                             +01
                                     TTI
               6D 00
                       SYMID
                              W.
                                     $006D
0240:
0250:
               6F 00
                       SSLO
                              \mathbf{x}
                                     SYMID
                                             +02
               70 00
0260:
                       SSHI
                               *
                                     SSLO
                                             401
```

```
71 00
                         SXLO
                                        SSHI
                                                +01
0270:
                                 *
0280:
                72
                    00
                         SXHI
                                 *
                                        SXLO
                                                +01
0290:
                73
                    00
                         EXLO
                                                +01
                                 *
                                        SXHI
0300:
                74
                    00
                         EXHI
                                 *
                                        EXL.0
                                                +01
                75
                    00
                         DATE
                                 *
                                        EXHI
                                                +01
0310:
                7B
                    00
                                 *
                                        DATE
                                                 +06
0320:
                         PAGE2
                7C
                    00
                         PGN2
                                 *
                                        PAGE 2
                                                 +01
0330:
                         XRFIND
                                                +01
                7D 00
                                 *
                                        PGN2
0340:
                                        XRFIND +01
0350:
                7E
                   00
                         SAVE
                                 *
                00
                         BUFFER
                                        $0100
0360:
                    01
                                 *
                    20
0370:
                31
                         RESTRT
                                 *
                                        $2031
                    25
0380:
                A4
                         PRSYM
                                 *
                                        $25A4
                    25
                                 *
0390:
                E6
                         SETSY
                                        $25E6
0400:
                97
                    27
                         YSN02
                                 *
                                        $2797
                AO
                    27
                         MESSY
                                 *
                                        $27A0
0410:
0420:
                C1
                    27
                         DADS
                                 *
                                        $2701
                    28
0430:
                37
                         FNDSYM
                                 *
                                        $2837
                    29
                                 *
                                        $298B
0440:
                8B
                         GETARG
                OA
                    20
                         MESSG
                                 *
0450:
                                        $200A
0460;
                09
                    20
                         HEXAX
                                 *
                                        $2DC9
                    20
                                 *
0470:
                CD
                         HEXOUT
                                        $2DCD
                                        $2DE7
0480:
                E7
                    20
                         CRLF
                                 *
0490:
                EB
                    20
                         HEXSP
                                 *
                                        $2DEB
                EE
                    20
                         OUTSP
                                 ×
                                        $2DEE
0500:
                FO
                    20
                                 *
                                        $2DF0
0510:
                         OUTCH
                    2E
0520:
                41
                         BUFIN
                                 *
                                        $2E41
0530:
                AO
                    2E
                         OUTPUT *
                                        $2EA0
0540:
                         ô
                         ŷ
                                        FILE 03
0010:
                                ****
                                                   ****
0020:
                         ņ
0030: 2000
                                 ORG
                                        $2000
0040:
                         ŷ
      2000 20 47 25
                                 JSR
                                        GETDAY TYPE IN THE DATE
0050:
      2003 EA
0060:
                                 NOP
      2004 20 3E 25
                                 JSR
0070:
                         COLD
                                        CLDCRL CLD AND CRLF (C)
      2007 EA
                                 NOP
0080:
0090:
                         9
                         ŷ
                                ****
                                        FILE 04
                                                   ****
0010:
0020:
                         ŷ
                                        $2050
      2050
                                 ORG
0030:
0040:
                                 JSR
0050:
      2050 20 41 2E
                                        BUFIN
                                                CORRECT WRONG JSR
                         ĝ
0060:
0010:
                         ŷ
                                        FILE 05
                                ****
                                                   ****
                         *
0020:
0030: 217B
                                 ORG
                                        $217B
0040:
                         ŷ
                                 JMP
0050; 217B 4C 04 20
                                        COLD
                                                GOTO NEW CLEAR-POINT
                         A
0060:
                         ŷ
0010:
                                ****
                                        FILE 06
                                                   ****
0020:
                         ŝ
0030: 232F
                                 ORG
                                        $232F
0040:
                         ŷ
      232F 4C 3C 35
                                 JMP
                                                GOTO NEW TABLE-ROUTINES
0050:
                                        TABLE
0060:
                         ô
0010:
                         ŷ
                                                   ****
                                ****
                                        FILE 07
                         7
0020:
0030: 2514
                                 ORG
                                        $2514
0040:
                         ; USE THE OLD SPACE OF TABLE FOR
0050:
```

```
# NEW SUBROUTINES.
0060:
0070:
0080:
                     * ROUTINES TO RESET THE XREF-POINTERS
0090:
01003
0110: 2514 A9 00 SETSY2 LDAIM $00
                      STAZ SSLO
STAZ CNT
0120: 2516 85 6F
0130: 2518 85 54
                           LDAIM $05
0140: 251A A9 05
SYMXRF
0220:
                     ; ROUTINES TO ADD A TO XREF-POINTERS.
0230:
0240: 2526 A2 00 DADS2 LDXIM $00
0250: 2528 A9 05 DADX2 LDAIM $05
                                          ADD LENTGH OF ENTRY
                    DADA2 CLC
0260: 252A 18
0270: 252B 75 6F
0280: 252D 95 6F
0290: 252F B5 70
0300: 2531 69 00
0310: 2533 95 70
0320: 2535 B5 6F
0330: 2537 C5 73
0340: 2539 B5 70
0350: 253B E5 74
0360: 253D 60
0370:

;
                     FOUTINE TO CLEAR DEC-MODE
0390:
0400:
                     # AND TO DO A CRLF
0410:
0420: 253E D8 CLDCRL CLD
0440: 2542 A9 FF
0450: 2544 85 63
0460: 2546 60
                             LDAIM $FF RESET PAGE-MODE
                             STAZ PMODE
                             RTS
0470:
0480:
                      ; ROUTINE TO ACCEPT THE DATE
04901
                      # AND TO STORE IT IN ZERO-PAGE.
0500:
0510:
0520: 2547 20 3E 25 GETDAY JSR CLDCRL MAKE SURE OF CLD
                                           TYPE 'ENTER DATE'
0530: 254A AO OO
                              LDYIM $00
0540: 254C B9 67 25 GETDY1 LDAAY TEKST GET A CHAR
0550: 254F 20 F0 2D
                                   OUTCH PRINT IT
                              JSR
0560: 2552 C8
                              YMI
0570: 2553 CO 14
                              CFYIM $14
                                          ALL DONE ?
                            BNE GETDY1 IF NOT NEXT

JSR BUFIN ACCEPT DATE VIA BUFIN
0580: 2555 DO F5
0590: 2557 20 41 2E
 0600: 255A A2 00
                             LDXIM $00
0610: 255C BD 00 01 GETDY2 LDAAX BUFFER TRANSFER DATE
0620: 255F 95 75
                             STAZX DATE TO ZERO-PAGE
0630: 2561 E8
                              INX
0640: 2562 E0 06
0650: 2564 D0 F6
                              CPXIM $06 ALL DONE
                             BNE GETDY2 IF NOT , NEXT
```

```
0660: 2566 60
                               RTS
                                             FINISHED.
06701
0680:
                       ; TABLE OF DATE TEXT
0690:
0700:
0710: 2567 45
                                      /E
                       TEKST
                               ::::
0720: 2568 4E
                                      'N
                                      17
0730: 2569 54
                               ::::
                                     'E
0740: 256A 45
                               ****
                                     'B
0750: 256B 52
                               ****
0760: 2560 20
                               ****
                                     ' D
0770: 256D 44
0780: 256E 41
                                      'A
                               ::::
                                     17
0790: 256F 54
                               ::::
0800: 2570 45
0810: 2571 20
                              ****
                                     11
0820: 2572 28
                               ****
0830: 2573 44
                                      ' D
                              ::::
0840: 2574 44
                               ****
                                     'D
0850: 2575 4D
                                      'M
                                     'M
0860: 2576 4D
                                     / Y
0870: 2577 59
                              ===
                                     / Y
0880: 2578 59
                              ****
                                     1)
0890: 2579 29
                              ****
0900: 257A 20
                               ::::
0910:
0920:
                       4
                       * ROUTINE TO FILL THE LAST
0930:
0940:
                       # PAGE OF THE PASS-2 IN ORDER
                       ; TO GET A FULL PAGE AS LAST ONE.
0950:
0960:
                                     PRELAG WAS THERE A PRI
0970: 257B A5 4D
                       ENDPAG LDAZ
                                     ENDPG3
0980: 257D DO OD
                               BNE
0990: 257F E6 56
                       ENDFG1 INCZ
                                     FGN
1000: 2581 10 06
                               BEL
                                     ENDFG2
1010: 2583 20 E7 2D
                               JSR
                                     CRLF
                                             PRINT A DUMMY LINE
1020: 2586 4C 7F
                  25
                               JMF
                                     ENDPG1
1030: 2589 20 8F
                   25
                      ENDPG2 JSR
                                     4CRLF
                                             JUST 4 MORE LINES
1040: 258C 4C 31 20
                       ENDPG3 JMP
                                     RESTRY AND FINISHED
1050:
1060:
                       # ROUTINE TO PRINT 4 CRLF'S
1070:
1080:
                                            SET Y TO 4 TIMES
1090: 258F A0 03
                       4CRLF LUYIM $03
1100: 2591 20 E7 2D
                       4CRLF1 JSR
                                     CRLF
1110: 2594 88
                               DEY
1120: 2595 DO FA
                               BNE
                                     4CRLF1 ALL DONE ?
1130: 2597 60
                               RTS
                                             YES.
1140:
                       ŷ
1150:
                       # ROUTINE OF SOME LOST
1160:
1170:
                       ; INSTRUCTIONS.
1180:
                               JSR
1190: 2598 20 CD 2D
                       PRTID
                                     HEXOUT FRINT IT
1200: 259B 20 EE 2D
                               JSR
                                     OUTSP AND A SPACE
1210: 259E 60
                               RTS
1220:
1230:
1240:
                         TEXT FOR XREF QUESTION.
1250:
```

```
1260; 259F 58
                      TEXT
                                     / X
                                     'B
1270: 25AO 52
                                     /E
1280: 25A1 45
1290: 25A2 46
                                     F
                              ****
                                     17
1300: 25A3 3F
                       ŷ
1310:
                                     FILE 08 ****
                       ŷ
                             ****
0010:
0020:
                              ORG
                                     $25EC
0030: 25EC
00403
                              LDAIM $08
                                            XLO = SLO + 08
0050: 25EC A9 08
0060:
0010:
                             ****
                                     FILE 09 ****
0020:
                       ş
                              ORG
                                     $25F8
0030: 25F8
0040:
                              JMF
                                     RESSYM RESET SYMBOL-AUR
0050: 25F8 4C 90 33
                       MAIN
0060: 25FB EA
                       MAINR
                              NOP
0070:
                                     FILE OA
                                               ****
0010:
                       ŷ
                             ****
0020:
0030: 2622
                              ORG
                                     $2622
0040:
                                     SPECIN GOTO SPECIAL BUFIN
0050: 2622 20 A4 33
                              JSR
0060:
                       ĝ
                                     FILE OB
                                              ****
                       ŷ
                             ****
0010:
0020:
0030: 26FB
                              ORG
                                     $26FB
0040:
0050: 26FB 20 45 37
                              JSR
                                     QUEST
                                           ASK XREF AND SAVE-ID
0060:
                                     FILE OC
                       ŷ
                             ****
                                              ****
0010:
0020:
                       9
                              ORG
                                     $271D
0030: 271D
0040:
                                     ENDPAG GOTO MAKE THE PAGE FULL
0050: 271D 4C 7B 25
                              JMP
00601
                       ŷ
                             ****
                                     FILE OD
                                              ****
                       ŷ
0010:
0020:
                       .
0030: 272F
                              ORG
                                     $272F
0040:
                                            GOTO SPECIAL GETARG
0050: 272F 20 B5 33
                              JSR
                                     GTARG
0060:
                       ŷ
                                     FILE OE ****
0010:
                       ŷ
                             ****
0020:
                       9
0030: 2703
                              ORG
                                     $27C3
0040:
                              LDAIM $08
                                            ADD 8
0050: 27C3 A9 08
                       DADX
0060:
                                     FILE OF
0010:
                       ŷ
                             ****
                                             ****
0020:
                       9
                              ORG
                                     $2837
0030: 2837
0040:
0050; 2837 A9 F8
                       FNDSBL LDAIM $F8
                                            LENTGH IS 8
0060:
                       ô
                             ****
                                     FILE 10
                                               ****
0010:
0020:
                       ŷ
0030: 287F
                              ORG
                                     $287F
0040:
0050: 287F 20 B5 33
                              JSR
                                     GTARG
                                           GET ARG WITHOUT
```

```
; STORING A XREF
0060:
0070:
0010:
                      ŷ
                             ****
                                    FILE 11 ****
0020:
0030: 2894
                              ORG
                                    $2894
0040:
                       ô
                                            ALSO INSERT THE
0050: 2894 4C FD 33
                      ADTABL JMP
                                    INSID
0060: 2897 EA
                      ADTBLE NOF
                                            SYMID IN SYMBOL-ENTRY
0070:
0010:
                                    FILE 12 *****
                      ŷ
                             ****
0020:
                      ÷
0030: 29B0
                              ORG
                                    $29B0
0040:
0050: 29B0 4C 5C 34
                              JMP
                                    STRXRF STORE XREF-ENTRY
                      OKS1
0060: 29B3 EA
                              NOP
0070: 29B4 EA
                              NOP
0080:
                      ŷ
0010:
                                    FILE 13 ****
                      ŷ
                             ****
0020:
                      ŷ
0030: 29FD
                              ORG
                                    $29FD
0040:
                                    M4CRLF AT THE END OF A PAGE
0050: 29FD 20 E4 33
                              JSR
                                            4 SPACE LINES FOR CUTTING
0060: 2A00 EA
                              HOP
0070: 2A01 EA
                                            (IF PRFLAG IS ON)
                              NOP
0080: 2A02 EA
                              NOP
0090: 2A03 EA
0100: 2A04 EA
                              NOP
                              NOP
0110:
                      n
                                    FILE 14 *****
0010:
                             ****
0020:
0030: 2A12
                              ORG
                                    $2A12
0040:
0050: 2A12 20 00 35
                                    TOPPRT PRINT NEW SORT OF
                              JSR
0060: 2A15 EA
                                            HEADER OF THE PAGE
                              NOP
0070: 2A16 EA
                              NOP
0080: 2A17 EA
                              NOP
0090: 2A18 EA
                              NOP
0100:
                                    FILE 15 ****
0010:
                             ****
0020:
0030: 2A2D
                              ORG
                                    $2A2D
0040:
                              LDYIM $02
                                            THREE CRLF AFTER HEADER
0050: 2A2D A0 02
0060:
0010:
                             ****
                                    FILE 16
                                             ****
0020:
0030: 2A35
                              ORG
                                    $2A35
0040:
0050: 2A35 A9 C4
                                            CORRECT NUMBERS OF LINES
                              LDAIM $C4
                        DUE TO THE 4 CRLF'S
0060:
0070:
                                    FILE 17 ****
0010:
                      ô
                             ****
0020:
                      9
0030: 2C4E
                              ORG
                                    $2C4E
0040:
0050: 2C4E 40
                                    $40
                                             NO 'FAGE' YET
0060:
0010:
                                    FILE 18 ****
                             ****
0020:
0030: 2E11
                              ORG
                                    $2E11
```

```
00403
0050: 2E11 20 EC 33
                                    DUT-OD DUTPUT OD + 3 * OO
                             JSR
0060:
0010:
                      ŷ
                            ****
                                    FILE 19
                                             ****
0020:
                      ŷ
                             ORG
                                    $2EA3
0030: 2EA3
0040:
                      9
0050:
                      ş
                        NEW RAM-DIVISIONS
00603
0070: 2EA3 53
                      SOURCM =
                                    $53
                                           SOURCE-TABLE - 1
0080: 2EA4 54
                                    $54
                                           START OF SOURCE-TABLE
                      SOURCE =
0090: 2EA5 64
                                           END OF SOURCE-TABLE
                      SOURCF =
                                    $64
0100: 2EA6 40
                                    $40
                                           START OF SYMBOL-TABLE
                      SYMBOL =
0110: 2EA7 54
                                           END OF SYMBOL-TABLE
                      SYMF
                                    $54
0120: 2EA8 9C
                      OBJECT =
                                           START OF OBJECT-BUFFER
                                    $9C
                                    $64
0130: 2EA9 64
                      SYMXRF =
                                           START OF XREF-TABLE
0140: 2EAA 9C
                      SYMMAX =
                                    $90
                                           END OF XREF-TAB
0150: 2EAB EA
                             NOP
                                    PRTID REPLACE INSTRUCTIONS
0160: 2EAC 20 98 25
                      ERID
                             JSR
0170:
                                    FILE 1A ****
                      ŷ
0010:
                            ****
                      ĝ
0020:
0030: 2EE9
                             ORG
                                    $2EE9
0040:
0050: 2EE9 DO C1
                                           JUMP TO NEW ERID
                             BNE
                                    ERID
0060:
0010:
                      ŷ
                                    FILE 1B ****
                            ****
0020:
0030: 3009
                             ORG
                                    $3009
0040:
0050: 30D9 E9 06
                             SBCIM $06
                                           CORRECT SMALL ERROR
0060:
0010:
                      ŷ
                            ****
                                    FILE 1C ****
0020:
                      *
0030: 3390
                             ORG
                                    $3390
0040:
0050:
0060:
                      ş
                       ROUTINE TO RESET THE ADDRESS-
                       FOINTERS OF THE XREF-TABLE AND
0070:
                      â
                       TO RESET THE SYMID
0080:
                      ô
0090:
0100: 3390 A0 00
                      RESSYM LDYIM $00
0110: 3392 84 7D
                             STYZ
                                    XRFIND CLEAR XRF-FLAG
0120: 3394 84 41
                             STYZ
                                    ELO
                                           ALSO RESET ELO
0130: 3396 84 6D
                             STYZ
                                    SYMID
0140: 3398 84 6E
                             STYZ
                                    SYMID
                                           +01
                             STYZ
0150: 339A 84 71
                                    SXLO
0160: 339C AD A9 2E
                             LIA
                                    SYMXRF
0170: 339F 85
              72
                             STAZ
                                    SXHI
0180: 33A1 4C FB 25
                             JMF
                                    MAINE
                                           AND RETURN
0190:
0200:
0210:
                      ; ROUTINE TO PRINT A POINT DURING PASS-2
                      ; IF THE FRINT IS OFF , TO RECOGNISE THE
0220:
                      ; END OF THE PASS-2,
0230:
0240:
                      SPECIN LDAZ
                                    PASS
                                           CHECK IF PASS-2
0250: 33A4 A5 4C
                                    NOPUNT IF NOT, NO POINT
0260: 33A6 D0 09
                             BNE
0270: 33A8 A5 4D
                             LDAZ
                                    PRFLAG CHECK IF PRT IS OFF
0280: 33AA FO 05
                             BEQ
                                    NOPUNT IF NOT , NO POINT
```

```
0290: 33AC A9 2E LDAIM '.
0300: 33AE 20 F0 2D JSR OUTCH
0310: 33B1 20 41 2E NOPUNT JSR BUFIN GET ID'S
0320: 33B4 60
                             RTS
0330:
0340:
                      ; ROUTINE TO GET A ARGUMENT
0350:
                      ; WITHOUT STORING A XREF
0360:
0370:
0380: 33B5 20 BE 33 GTARG JSR FSSXLO SAVE SXLO ETC
0390: 33B8 20 8B 29 0400: 33BB 20 D1 33
                      JSR GETARG FIND SYMBOL
JSR PLSXLO RESTORE SXLO ETC
0410;
0420:
                      ; ROUTINE TO SAVE SXLO , SXHI,
0430:
0440:
                      # EXLO AND EXHI
0450:
0470: 33BF A5 71
0460: 33BE 48
                     PSSXLO PHA
                                           SAVE ACCUM
                              LDAZ SXLO
0480: 33C1 85 7E
0490: 33C3 A5 72
0500: 33C5 85 7F
                              STAZ SAVE
                              LDAZ SXHI
0500: 33C5 85 7F
                              STAZ SAVE
                                           +01
0510: 33C7 A5 73
                             LDAZ EXLO
0520: 33C9 85 80
                                           +02
                             STAZ SAVE
                            LDAZ EXHI
0530: 33CB A5 74
0540: 33CD 85 81
0550: 33CF 68
                              STAZ SAVE +03
                              F'L.A
                                           RESTORE ACCUM
0560: 33D0 60
                              RTS
0570:
0580:
                     # ROUTINE TO RESTORE SXLO,
# SXHI, EXLO, EXHI.
0590:
0600:
                      ŷ
0610:
0620: 33D1 48 PLSXLO PHA
0630: 33D2 A5 81 LDAZ
                                            SAVE ACCUM
                              LDAZ SAVE +03
0640: 3304 85 74
                              STAZ EXHI
0650: 33D6 A5 80
                             LDAZ SAVE +02
0660: 33D8 85 73
0670: 33DA A5 7F
                             STAZ EXLO
                          LDAZ SAVE
                                           +01
0680: 33DC 85 72 STAZ SXHI
0690: 33DE A5 7E LDAZ SAVE
0700: 33E0 85 71 STAZ SXLO
0710: 33E2 68
                            PLA
                                          RESTORE ACCUM, ....
0720: 33E3 60
                              RTS
0730:
0740:
                      ; ROUTINE TO CHECK IF PRFLAG IS OFF
0750:
                      ; IF NOT , TO PRINT 4 CRLF'S
0760:
0770:
0780: 33E4 A5 AD MACRLF LDAZ FRFLAG CHECK FLAG
0790: 33E6 D0 03 BNE MACRL1
                      BNE M4CRL1
0800: 33E8 20 8F 25
                              JSR 4CRLF PRINT THEM
0810: 33EB 60 M4CRL1 RTS
                                            NO PRINT
0820:
0830:
                      # ROUTINE TO PRINT A CARRIAGE RETURN
0840:
0850:
                     ; AND 3 TIMES A NULL TO GIVE THE TTY
0860:
                     * TIME TO RETURN TO THE BEGINNING OF
0870:
                      FITHE LINE.
0880:
```

```
0890: 33EC 20 AO 2E OUT-OD JSR OUTPUT A CR
   0900: 33EF A9 03
                                     LDAIM $03 SET COUNT TO 3
   0910: 33F1 85 7E
                                     STAZ SAVE
                                                    USE SAVE-FIELD
   0920: 33F3 A9 00 OUTOD1 LDAIM $00
   0930: 33F0 LU ...
0940: 33F8 C6 7E
   OUTPUT
                                           SAVE
                                                     COUNT - 1
                                     DECZ
                                    BNE OUTOD1 NOT FINISHED YET
   0950: 33FA DO F7
   0960: 33FC 60
                                    RTS
                                                     READY.
   0970:
   0980:
                            ; ROUTINE TO INSERT THE SYMID
   0990:
                            ; IN THE SYMBOL-TABLE AND TO
   1000:
                            # PLACE TO FIRST XREF OF THIS
   1010:
                            # SYMBOL IN THE XREF-TABLE
   1020:
   1030:
   1040: 33FD A2 00 INSID LDXIM $00
SYMID-PLACE
GET SYMID
AND STORE IT
MAKE BIT ' = 1
STAIX SXLO
JSR INSXLO ADD 1 TO SXLO
INY
LNAZ SYMID +01
STAIX SXLO
1160: 3414 20 29 34
1170: 3417 18
1180: 3418 A5 6E
1190: 341A 69 01
1190: 341A 69 01
11200: 341C 85 6E
1190: 341E A5 6D
11200: 3426 4C 97 28
11260: 1270: 1280: 1270: 1300: 1300: 1310
                                                     FOR THE IX-INSTR
   1050: 33FF 91 41
                                     STAIY ELO
                                                     STORE PC
                                                    THE SECOND PART OF IT
                                                    RESTORE INSTRUCTIONS
   1300:
   1310: 3429 20 4A 34 STRRST JSR INSXLO ADD 1 TO SXLO
                           LDAZ ID GET ID
   1320: 342C A5 62
   1330: 342E 81 71
                                     STAIX SXLO AND STORE IT
                                 JSR INSXLO
LDAZ NHI HIGH-ORDER NU
STAIX SXLO AND STORE IT
JSR INSXLO
LDAZ NLO GET LOW-ORDE!
STAIX SXLO AND STORE IT
   1340: 3430 20 4A 34
   1350: 3433 A5 16
                                                    HIGH-ORDER NUMBER
   1360: 3435 81 71
   1370: 3437 20 4A 34
   1380: 343A A5 15
                                                    GET LOW-ORDER NUMBER
   1390: 343C 81 71
                                 JSR
, E
   1400: 343E 20 4A 34
1410: 3441 A5 71
                                            INSXLO
                                   LDAZ SXLO
                                                     AJUST MAX-POINTERS
   1410: 3443 85 73
1430: 3445 A5 72
                                    STAZ EXLO
                                   LDAZ
                                            SXHI
                                             EXHI
                                     STAZ
   1450: 3449 60
                                     RTS
   1460:
   1470:
   1480:
                         ; ROUTINE TO ADD 1 TO SXLO
```

```
SXLO
                     INSXLO INCZ
1490:
1500: 344A E6 71
                                          ALSO 1 BY HIGH-ORDER
                                   INSXLR
                             BNE
1510: 344C DO OD
                                          CHECK IF NOT TOO FAR
                                   SXHI
                             INCZ
1520: 344E E6 72
                                   SXHI
                             LDAZ
1530: 3450 A5 72
                                   SYMMAX
                                   INSXLR NOT TOO FAR
                             CMF
1540: 3452 CD AA 2E
                                   SXLO FORCE SXLO AND SXHI
                             BNE
1550: 3455 DO 04
                             DECZ
                                           TO MAX - 1
1560: 3457 C6 71
                                    SXHI
                             DECZ
1570: 3459 C6 72
                      INSXLR RTS
 1580: 345B 60
 1590:
                       ; ROUTINE TO STORE A XREF
 1600:
                       ; ENTRY IN THE TABLE WITH
                       ; SYMID FROM FOUND SYMBOL
 1610:
 1620:
                       STRXRF LDAZ XRFIND CHECK IF BLOCKED
 1630:
 1640:
 1650: 345C A5 7D
                                     STRXF1
                              BNE
 1660: 345E DO 12
                              LDXIM $00
 1670: 3460 A2 00
                               YMI
                                            GET SYMID
  1680: 3462 C8
                               LDAIY SLO
                                            AND STORE IT
  1690: 3463 B1 3F
                               STAIX SXLO
  1700: 3465 81 71
                                     INSXL0
                               JSR
  1710: 3467 20 4A 34
                                            GET LAST PART
                               YMI
  1720: 346A C8
                               LDAIY SLO
                                             AND STORE IT
  1730: 346B B1 3F
                               STAIX SXLO
  1740: 346D 81 71
                                      STRRST
                                             RESTORE INSTR.
                               JSR
  1750: 346F 20 29 34
                        STRXF1 LDYZ
                                      YCOM
   1760: 3472 A4 31
                               LDAAY BUFFER
                                             AND RETURN
   1770: 3474 B9 00 01
                                      OKS1
                                JMP
   1780: 3477 4C B3 29
                                     FILE 1D ****
                         ô
                               ****
   1790;
                         ; THE AREA OF 3480-3500 MUST BE KEPT FREE
   0010:
                         ; BECAUSE IT IS USED BY THE V-COMMAND
   0020:
                         ; TO MAKE SHURE OF THAT THIS FILE WILL BE
   00301
   0040:
                          ; GIVEN A ORG OF 3500.
    0050:
    0060:
                                       $3500
    0070:
                                 ORG
    0080: 3500
                          ; ROUTINE TO PRINT THE TOP OF
    0090:
                          ; A PASS-2 ASSEMBLYLIST.
    0100:
                                       PRFLAG CHECK IF NO PRINT
    0110:
                          TOPPRT LDAZ
    0120:
    0130: 3500 A5 4D
                                        TOPPT5
                                               PRINT FIRST PART
                                  BME
    0140: 3502 DO 35
                                  LDYIM $23
                                               GET A CHAR
     0150: 3504 A0 23
                          TOPPT1 LDAAY MESSG
                                               END-CHAR ?
     0160: 3506 B9 OA 2C
                                  CMPIM $40
                                        TOPPT2 IF SO, STOP
     0170: 3509 C9 40
                                                IF NOT PRINT IT
                                  BEQ
     0180: 350B F0 06
                                        OUTCH
                                  JSR
                                                NEXT ONE
     0190: 350D 20 FO 2D
                                  INY
     0200: 3510 C8
                                        TOPPT1
                                  BNE
                                               TWO SPACE
     0210: 3511 DO F3
                                         OUTSP
                           TOPPT2 JSR
     0220: 3513 20 EE 2D
                                         OUTSP
                                   JSR
                                                PRINT THE DATE
     0230: 3516 20 EE 2D
                                   LDXIM $00
                                                GET A DATE-NUMB
      0240: 3519 A2 00
                           TOPPT3 LDAZX DATE
                                                PRINT IT
      0250: 351B B5 75
                                         OUTCH
                                   JSR
      0260: 351D 20 FO 2D
                                                NEXT ONE
                                   INX
                                                DONE ?
      0270: 3520 E8
                                   CPXIM $06
                                         TOPPT3 IF NOT, GO ON
      0280: 3521 E0 06
                                   BNE
      0290: 3523 DO F6
```

```
JSR OUTSP
0300: 3525 20 EE 2D
0310: 3528 20 EE 2D
                           JSR OUTSP
                     TOPPT4 INY
                                         GET NEXT CHAR
0320: 352B C8
0330: 352C B9 OA 2C
                            LDAAY MESSG
                                       OF HEADER
0340: 352F C9 40
                            CMFIM $40
0350: 3531 FO 06
                                 TOPPT5
                            BEQ
0360: 3533 20 FO 2D
                            JSR
                                 OUTCH
0370: 3536 4C 2B 35
                            JMP
                                 TOPPT4 GOTO NEXT ONE
0380: 3539 A9 00
                    TOPPT5 LDAIM $00 FORCE BEQ ON RETURN
0390: 353B 60
                           RTS
0400:
0410;
                     # ROUTINE TO DETERMEN WHAT KIND OF
0420:
0430:
                     ; TABLE PROCESSING IS WANTED AND
                     ; TO EXECUTE THE DESIRED COMMAND
0440:
0450:
0460: 353C A6 1A
                    TABLE
                           LDXZ LOPAR
0470: 353E E0 02
                            CPXIM $02 ONLY ADRESSES ?
0480: 3540 F0 04
                                  TABLE1
                            BEG
0490: 3542 E0 03
                            CFXIM $03
                                         A COMPLETE TABLEPRINT ????
                            BNE TABLES IF SO , ANALYSE IT
0500: 3544 DO 1D
0510: 3546 20 F9 36 TABLE1 JSR
                                 PRTS1 PRINT ADRESSES
0520: 3549 A6 1A
                            LDXZ LOPAR ONLY A PRINT ?
0530: 354B E0 02
                            CFXIM $02
0540: 354D FO 11
                                 TABLE2 YES, THEN FINITO
                            BEQ
0550: 354F A5 1B
0560: 3551 85 41
0570: 3553 A5 1E
                           LDAZ
                                 LOPAR +01 NO, ALSO A CHANGE
                           STAZ
                                 ELO
                           LDAZ
                                 HIPAR
                                        +01
                         STAZ EHI
0580: 3555 85 42
                          JSR
0590: 3557 20 E7 2D
                                 CRLF
0600: 355A A2 02
                          LDXIM $02
                                         FORCE A NEW PRINT
0610: 355C 86 1A
                           STXZ LOPAR OF THE ADDRESSES
0620: 355E DO E6
                           BNE
                                 TABLE1
0630: 3560 4C 31 20
                   TABLE2 JMP
                                 RESTRY AND RETURN TO EDITOR
0640: 3563 A9 00
                     TABLE3 LDAIM $00
                                         SET COUNTER
0650: 3565 85 7B
                            STAZ PAGE2 TO INITIAL VALUES
0660: 3567 85 70
                            STAZ
                                 PGN2
0670: 3569 20 85 35
                                 SORT1 SORT SYMBOLTABLE
                            JSR
0680: 356C A6 1A
                           LDXZ
                                  LOPAR
0690: 356E E0 03
                           CFXIM $03
0700: 3570 30 09
                           BMI
                                 TABLE4 ONLY SYMBOLPRT
                                SORT2
                           JSR
0710: 3572 20 CD 35
                                         SORT XREFTABLE
                                PRIXEF PRINT XREF
                           JSR
0720: 3575 20 03 36
0730: 3578 4C 7E 35
                           JMF
                                TABLES AND RETURN
0740: 357B 20 B7 36
                    TABLE4 JSR PRNT PRINT SYMBOLS
0750: 357E A5 7C
                    TABLES LDAZ PGN2
                                        FORCE ENDPG1 TO
                                        FILL UP THE PAGE
0760: 3580 85 56
                           STAZ
                                 PGN
0770: 3582 4C 7F 25
                                 ENDFG1
                           JMP
0780:
                     ŷ
07901
0800:
                     ; ROUTINE TO SORT THE SYMBOL-TABLE
                     ON ADDRESSES IF LOPAR IS ODD
0810:
0820:
                     FOR ON SYMBOLS IF LOPAR IS EVEN
0830:
                     ô
0840: 3585 20 E6 25 SORT1
                            JSR
                                 SETSY RSET SYMBOLPOINTERS
0850: 3588 A5 1A
                    LOOPT
                           LDAZ
                                 LOPAR
                                         ADDRESSES OR SYMB
0860: 358A 4A
                            LSBA
0870: 358B BO 11
                            BCS
                                  LOOPB
0880: 358D A0 00
                           LDYIM $00
0890: 358F B1 55 NEXTY LDAIY XLO COMPARE
```

```
0900: 3591 D1 3F CMPIY SLO FOR 0910: 3593 90 16 BCC MOVEX ALFA 0920: 3595 D0 27 BNE LESS SORT
0930: 3597 C8
                                  INY
0940: 3598 CO 04
                                  CPYIM $04
                                                   ALL CHAR COMPARED
0950: 359A DO F3
                                  BNE NEXTY IF NOT, NEXT
                                          LESS IF SO , NO MOVE
0960: 359C FO 20
                                  BEQ
0970: 359E A0 04 LOOPB LDYIM $04
0980: 35A0 B1 55
                                   LDAIY XLO
                                                    COMPARE
0790: 35A2 D1 3F
1000: 35A4 C8
                                   CMPIY SLO
                                   INY
                                                  FOR ADDRES
1010: 35A5 B1 55
                                   LDAIY XLO
                                                  SORT
1020: 35A7 F1 3F

1030: 35A9 B0 13 BCS LESS

1040: 35AB A0 07 MOVEX LDYIM $07 EXCHANGE ENTRIES

1050: 35AD B1 3F MOVET LDAIY SLO GET ONE OF SLO

PHA SAVE IT
1020: 35A7 F1 3F
                                   SBCIY SLO
                                 PHA SAVE IT
LDAIY XLO AND ONE OF XLO
1070: 35B0 B1 55
1080: 35B2 91 3F
                             STAIY SLO STORE IT IN SLO
1090: 35B4 68
                                  FLA
                                                    GET SAVED SLO
1100: 35B5 91 55
                                  STAIY XLO AND STORE IT IN XLO
1110: 35B7 88
1120: 35B8 10 F3
1130: 35BA A9 01
1140: 35BC 85 54
                                 DEY NEXT ONE
BPL MOVET IF STILL ANY
LDAIM $01 INDICATE A MO
                                                  INDICATE A MOVE
1140: 35BC 85 54 STAZ CNT
1150: 35BE 20 C1 27 LESS JSR DADS SLO = SLO +8
JSR DADS SLO = SLO +8
LDXIM $16
1170: 35C3 20 C3 27
JSR DADX XLO = XLO + 8
1180: 35C6 90 C0
BCC LOOPT IF STILL ENTRIES, GO ON
1190: 35C8 A6 54
LDXZ CNT ANY CHANGES ?
1200: 35CA DO B9
BNE SORT1 IF SO, FROM THE
1210: 35CC 60
PTC
1220:
                         ŷ
1220:
                         ŷ
                                 ***** FILE 1E ****
0010:
00201
                          ; ROUTINE TO SORT THE XREFTABLE ON
0030:
                          # SYMID , ID , LINE-NUMBERS.
0040:
0050:
0060: 35CD 20 14 25 SORT2 USR SETSY2 RESET XREFPOINTERS
0070: 35D0 A0 00 LOOPT2 LDYIM $00
0080: 35D2 B1 71 NEXTY2 LDAIY SXLO
0090: 35D4 D1 6F CMPIY SSLO
0100: 35D6 90 09 BCC MOVX:
0110: 35D8 D0 1A BNE LESS:
                                   BCC MOVX2 IF SSLO < SXLO
                                  BNE LESS2 IF SSLO > SXLO
                                   INY
                                                   COMPARE NEXT ENTRY
0120: 35DA C8
                                  CPYIM #05 ALL CHAR HAD ?
0130: 35DB CO 05
                                  BNE NEXTY2 IF NOT NEXT ONE
                                  BEQ LESS2 IF YES , A EQUAL ONE
0180: 35E5 48
                                   PHA
0190: 35E6 B1 71
                                   LDAIY SXLO
0200: 35E8 91 6F
                                   STAIY SSLO
0210: 35EA 68
                                   FLA
0220: 35EB 91 71
                                  STAIY SXLO
0230: 35ED 88
                                  DEY
0240: 35EE 10 F3 BPL MOVET 0250: 35F0 A9 01 LDAIM $01 0260: 35F2 85 54 STAZ CNT
                                  BPL MOVET2
                                                  INDICATE A MOVE
0270: 35F4 20 26 25 LESS2 JSR DADS2 SSL0 = SSL0 + 5
```

```
SXLO = SXLO + 5
0280: 35F7 A2 02
                            LDXIM $02
0290: 35F9 20 28 25
                            JSR
                                   DADX2
                                   LOOPT2 STILL ENTRIES
0300: 35FC 90 D2
                            BCC
0310: 35FE A6 54
                            LDXZ
                                   CNT
                                          NO CHANGES ?
                                          YES
0320: 3600 DO CB
                                   SORT2
                            BNE
0330: 3602 60
                            RTS
                                          NO
03401
0350:
                     ; ROUTINE TO PRINT OUT A
0360:
                     ; LIST OF ALL THE SYMBOLS, THEIR
0370:
                       ADDRESSES , THEIR LINE-NUMBERS AND
0380:
                       THE LINE-NUMBERS WHERE THE SYMBOL
0390:
0400:
                     ; IS USED.
0410:
0420: 3603 20 E6 25
                                          RESET SYMBOLPOINTERS
                    PRTXRF JSR
                                   SETSY
0430: 3606 20 EB 36
                             JSR
                                   PRTSO PRINT FIRST HEADER
0440: 3609 20 A4 25
                     PRTXF1 JSR
                                   PRSYM PRINT THE SYMBOL
0450: 360C AO 04
                            LDYIM $04
0460: 360E B1 3F
                            LDAIY SLO
0470: 3610 AA
                             TAX
0480: 3611 C8
                            INY
0490: 3612 B1 3F
                            LDAIY SLO
                            JSR
                                 HEXAX AND ITS ADDRESS
0500: 3614 20 C9 2D
0510: 3617 20 14 25
                                   SETSY2 SET XREFPOINTERS
                            JSR
0520: 361A C8
                            INY
                            LDAIY SLO
                                          GET SYMID
0530: 361B B1 3F
0540: 361D 09 80
                            ORAIM $80
                                          MAKE BIT7 = 1
0550: 361F 85 6D
                         STAZ SYMID SAVE IT
0560: 3621 C8
                            INY
0570: 3622 B1 3F
                            LDAIY SLO
0580: 3624 85 6E
                            STAZ SYMID
                                         +01
0590: 3626 20 6F 36
                            JSR
                                   FNDXRF SEARCH FOR IT
0600: 3629 20 98 36
                            JSR
                                   PRISYM PRINT IT
0610: 3620 20 14 25
                                   SETSY2 RESET XREFPOINTERS
                            JSR
0620: 362F A5 6D
                            LDAZ
                                   SYMID
                            ANDIM $7F
                                          MAKE BIT7 = 0
0630: 3631 29 7F
0640: 3633 85 6D
                            STAZ SYMID
0650: 3635 20 6F 36
                                   FNDXRF FIND IT
                            JSR
0660: 3638 FO OA
                                   PRIXE2 ONE IS FOUND
                            BEQ
0670: 363A 20 DF 36
                            JSR
                                   PRILIN PRINT THE LINE
0680: 363D 20 C1 27
                                          GOTO NEXT SYMBOL
                             JSR
                                   DADS
0690: 3640 90 C7
                            BCC
                                   PRIXF1 STILL ONE IN THE TABLE
0700: 3642 BO 2A
                             BCS
                                   PRIXEZ ALL DONE
0710: 3644 A9 FB
                     PRTXF2 LDAIM $FB
                                          FOUR XREF ON A LINE
0720: 3646 85 54
                             STAZ
                                   CNT
0730: 3648 E6 54
                                   CNT
                                          SPACE LEFT ?
                     PRTXF3 INCZ
                                   PRTXF5 YES
0740: 364A 30 OD
                             BMI
0750: 364C 20 DF 36
                                   FRILIN NO, PRINT LINE
                             JSR
                             LDYIM $18
                                          PRINT 24 SPACES
0760: 364F AO 18
0770: 3651 20 EE 2D
                     PRTXF4
                             JSR
                                   OUTSP
0780: 3654 88
                             DEY
0790: 3655 DO FA
                                   PRTXF4
                             RNE
0800: 3657 FO EB
                             BEQ
                                   PRTXF2
0810: 3659 20 98 36
                                   PRISYM PRINT XREF-ENTRY
                     PRIXES JSR
                             JSR
0820: 365C 20 26 25
                                   DADS2
                                          GOTO NEXT ONE
0930: 365F BO 05
                             BCS
                                   PRIXES NO MORE LEFT
0840: 3661 20 6F 36
                             JSR
                                   FNDXRF SEARCH FOR NEXT
0850: 3664 FO E2
                            BEQ
                                   PRIXES IF ONE PRI IT
0860: 3666 20 DF 36
                                   PRTLIN FINISH LAST LINE
                     PRTXF6 JSR
0870: 3669 20 C1 27
                             JSR
                                   DADS
                                          GOTO NEXT SYMBOL
```

```
BCC
                                   PRTXF1 IF STILL LEFT
0880: 366C 90 9B
                                           ALL DONE
0890: 366E 60
                     PRTXF7 RTS
0900:
0910:
                      # ROUTINE TO FIND A XREF WITH
0920:
                      ; THE SAME ID AS SYMID
0930:
0940:
                     FNDXRF LDYIM $01
0950: 366F A0 01
0960: 3671 B1 6F
0970: 3673 C5 6E
                             LDAIY SSLO
                             CMPZ
                                   SYMID
                                          +01
0980: 3675 88
                             DEY
0990: 3676 B1 6F
                             LDAIY SSLO
1000: 3678 E5 6D
                             SBCZ SYMID
1010: 367A BO 07
                             BCS
                                   MAYBE
                                           EITHER > OR =
1020: 3670 20 26 25
                     FNDXF1 JSR
                                   DADS2 GOTO NEXT ONE
1030: 367F 90 EE
                             BCC
                                   FNDXRF
1040: 3681 BO 12
                                           NONE FOUND
                             BCS
                                   NOGO
1050: 3683 A0 00
                      MAYBE
                            LDYIM $00
1060: 3685 A5 6D
                             LDAZ
                                   SYMID
                             CMPIY SSLO
1070: 3687 D1 6F
1080: 3689 DO OA
                             BNE
                                   NOGO
1090: 368B A5 6E
                                   SYMID +01
                             LDAZ
1100: 368D C8
                             INY
                             CMPIY SSLO
1110: 368E D1 6F
1120: 3690 DO 03
                             BNE
                                   NOGO
1130: 3692 A9 00
                      GOGO
                             LDAIM $00
                             RTS
1140: 3694 60
1150: 3695 A9 FF
                      NOGO
                             LDAIM $FF
1160: 3697 60
                             RTS
                      ŷ
1170:
                      ŷ
                            ***** FILE 1F ****
0010:
00201
                      * ROUTINE TO PRINT THE XREF-ENTRY.
0030:
0040:
                                          FIRST TWO SPACES
0050: 3698 20 EE 2D
                                   OUTSP
                     PRTSYM JSR
0060: 369B 20 EE 2D
                                   OUTSP
                             JSR
0070: 369E A0 02
                             LDYIM $02
0080: 36A0 B1 6F
                             LDAIY SSLO
                                           GET TAPE-ID
                                   HEXOUT PRINT IT
0090: 36A2 20 CD 2D
                             JSR
0100: 36A5 A9 2D
                             LDAIM '-
0110: 36A7 20 FO 2D
                                 OUTCH
                             JSR
0120: 36AA C8
                          INY
                             LDAIY SSLO
                                           GET LINENUMB
0130: 36AB B1 6F
0140: 36AD 48
                             FHA
0150: 36AE C8
                             INY
                            LDAIY SSLO
0160: 36AF B1 6F
0170: 36B1 AA
                             TAX
0180: 36B2 68
                            FLA
0190: 36B3 20 C9 2D
                                   HEXAX
                             JSR
0200: 36B6 60
                             RTS
                      9
0210:
0220:
                      # ROUTINE TO PRINT THE
0230:
                      ; SYMBOL-TABLE.
0240:
0250:
0260: 36B7 20 E6 25
                      PRNT
                             JSR
                                    SETSY
                                           RESET POINTERS
                                   PRISO PRINT HEADER
0270: 36BA 20 EB 36
                             JSR
0280: 36BD A9 FB
                             LDAIM $FB
                                           FOUR ENTRIES / LINE
                      PRNT1
0290: 36BF 85 54
                             STAZ
                                    CNT
0300: 36C1 E6 54
                     PRNT2
                             INCZ
                                   CNT
```

```
0310: 3603 30 06
                             BMI PRNT3 SPACE LEFT
0320: 36C5 20 DF 36
                              JSR FRTLIN NO PRINT LINE
                              JMP FRNT1
0330: 3608 40 BD 36
0340: 36CB 20 A4 25 PRNT3 JSR PRSYM
0350: 36CE A0 04
0340: 36D0 B1 3F
                              LDYIM $04 PRINT ADDRESS
LDAIY SLO
0370: 36D2 AA
                              TAX
0380: 36D3 C8
                              INY
0390: 36D4 B1 3F
                             LDAIY SLO
0390: 36D4 B1 U.
0400: 36D4 20 C9 2D
0410: 36D9 20 C1 27
0420: 36DC 90 E3
                             JSR HEXAX
                                             TO NEXT ONE
                              JSR
                                  DADS TO NEXT ONE
PRNT2 STILL ANY LEFT
                                     DADS
                              BCC
0430: 36DE 60
                              RTS
                                             NO
                      ŷ
0440:
0450:
                      * ROUTINE TO PRINT A LINE AND
0460:
                      * TO KEEP TRACK OF PAGE-SIZE
0470:
0480:
0490: 36DF E6 7C PRTLIN INCZ
0500: 36E1 30 04 BMI
                                    PGN2
                                     OKLIN
0510: 36E3 20 EB 36
                              JSR
                                     PRTSO PRINT HEADER
0520: 36E6 60
                              RTS
0530: 36E7 20 E7 2D OKLIN JSR CRLF FINISH LINE
0540: 36EA 60
                              RTS
0550:
0540:
                      * ROUTINE TO PRINT HEADER
0570:
0580:
0590: 36EB 20 8F 25 PRTS0 JSR 4CRLF
0600: 36EE 20 F9 36
0610: 36F1 20 0E 37
0620: 36F4 A9 C4
0630: 36F6 85 7C
0640: 36F8 60
                              JSR PRTS1
                              JSR PRTS2
                             LDAIM $C4
                              STAZ FGN2 RESET LINE COUNT
                              RTS
0650:
0660:
                      ; ROUTINE TO PRINT FIRST PART OF
0670:
0680:
                      ; THE HEADER LINE
0690:
                      ŷ
0700: 36F9 A0 4B
                     PRTS1 LDYIM $4B
0710: 36FB 20 A0 27
0720: 36FE AD A6 2E
                             JSR MESSY
                          LDA SYMBOL PRINT ADDRESSES
0730: 3701 A2 00
                            LDXIM $00
0740: 3703 20 EB 2D
0750: 3706 A5 42
0760: 3708 A6 41
                              JSR HEXSF
                            Jan
LDAZ EHI
                             LDXZ ELO
0760: 3708 no 71
0770: 370A 20 C9 2D
                            JSR
                                   HEXAX
0780: 370D 60
                              RTS
                       ş
0790:
                       ŷ
0800:
                       ; ROUTINE TO PRINT SECOND PART
0810:
0820:
                      ; OF THE HEADER
0830:
0840: 370E 20 EE 2D PRTS2 JSR
                                   OUTSP
0850: 3711 20 EE 2D
                              JSR OUTSP
0860: 3714 A2 00
                              LDXIM $00
                                            PRINT DATE
0870: 3716 B5 75 PRTS2A LDAZX DATE
0880: 3718 20 FO 2D
                              JSR
                                     OUTCH
0890: 371B E8
0900: 371C E0 06
                               INX
                              CPXIM $06 ALL DONE ?
```

0910: 0920: 0930:	371E 3720 3723	DO 20 A0	F6 EE 45	20		BNE JSR LDYIM	PRTS2A OUTSP \$45	NO PRINT 'PAGE'
0930:	3725	B9	OA	20	PRTS2B	LDAAY		LUTIAL LUOT
0950:	3728	C9	40	منا اسا	LUIDED	CMPIM		END ?
0960:		FO				BEQ	PRTS2C	YES
0970:	372C	20	FO	20		JSR	OUTCH	NO
0980:	372F	C8				INY		NEXT ONE
0990:	3730	DO	F3			BNE	PRTS2B	
1000:	3732	20	EE	2D	PRTS2C	JSR	OUTSP	
1010:		A5	7B			LDAZ	PAGE2	PRINT PAGE-NUMB
1020:		F8				SED		
1030:	3738	18				CLC		A W. W. J. 1907A. PH. A 7% PM 21%
1040:		69	01			ADCIM	\$01	ADD 1 TO PAGE2
1050:		D8	··· 9 y-,			CLD	m A 0 m 0	
1060:	373C	85	ZB CD	275 Y'S		STAZ	PAGE2	
1070:	373E	20 20	CD 8F	2D 25		JSR	HEXOUT 4CRLF	
1080:	3741 3744	60	Ør.	al D		JSR RTS	4 CREE	
1100;	3/44	00			ĝ	NID		
1110;	3745	20	EE	20	QUEST	JSR	OUTSP	PRT / XREF?'
1120:	3748	AO	00	A., 1.,	CACHEOI	LDYIM		701 700-17
1130:	374A	B9	9F	25	QUEST1	LDAAY	TEXT	GET A CHAR
1140:	374D	20	FO	2D	65 67 has 67 1 ab	JSR	OUTCH	PRINT IT
1150:	3750	C8				INY		
1160:	3751	CO	05			CFYIM	\$05	ALL DONE
1170:	3753		F5			BNE	QUEST1	NO
1180:	3755	20	EE	5D		JSR	OUTSP	
1120:	3758	20	97	27		JSR	YSNO2	GET ANSWER
1200:	375B	po	02			BNE	QUEST2	NO XREF
1210:	375D	A9	00			LDAIM		
1220:	375F	85	7D		QUEST2	STAZ	XRFIND	POPUTATE A COALIES TYPES
1230:	3761	AO	18	/\ '''		LDYIM	\$18 *ECCV	PRINT 'SAVE-ID?'
1240:	3763	20	AO	21		JSR	MESSY	AND RETURN
1250: 1260:	3766	60			ŷ	RTS		LIMT: LET LOUM
TWOOT					7			

ADTABL	2894	11-0050				
ADTBLE	2897	11-0060	1C-1250			
BUFFER	0100	02-0360	07-0610	10-1770		
BUFIN	2E41	02-0520	04-0050	07-0590	10-0310	
CLDCRL	253E	07-0420	03-0070	07-0520	475 44 40	15 1100
CNT	0054	02-0170	02-0180	07-0130	10-1140	1D-1190
			1E-0260	1E-0310	1E-0720	1E-0730
200 200 1 W.	~~~	AT AATA	1F-0290	1F-0300		
COLD	2004	03-0070	05-0050	A1010	A7 44AA	1 D AEOA
CRL.F	2DE7	02-0480	07-0430	07-1010	07-1100	1D-0590
DADAR	252A	07-0260	1F-0530			
DADS	2701	02-0420	10-1150	1E-0680	1E-0870	1F-0410
DADSR	2526	07-0240	1E-0270	1E-0820	1E-1020	11 0710
DADX	2703	0E-0050	1D-1170	di la Waran W	di lin. di Wan W	
DADXR	2528	07-0250	1E-0290			
DATE	0075	02-0310	02-0320	07-0620	1D-0250	1F-0870
EHI	0042	02-0140	1D-0580	1F-0750		
EL.O	0041	02-0130	02-0140	1C-0120	10-1050	10-1080
			10-1140	1D-0560	1F-0760	
ENDPAG	257B	07-0970	OC-0050	*		
ENDEGQ	257F	07-0990	07-1020	1D-0770		
ENDFGR	2589	07-1030	07-1000			
ENDPGS	258C	07-1040	07-0980			
ERID	2EAC	19-0160	1A-0050			
EXHI	0074	02-0300	02-0310	07-0350	10-05 30	10-0640
100 C 2 L 205	A A 111 119		1C-1440	A A A.	40 0040	40.0110
EXL.0	0073	02-0290	02-0300	07-0330	10-0510	10-0660
FNDSBL	2837	OF-0050	1C-1420			
FNDSYM	2837	02-0430				
FNDXFQ	367C	1E-1020				
FNDXRF	366F	1E-0950	1E-0590	1E-0650	1E-0840	1E-1030
GETARG	298B	02-0440	10-0390			
GETDAY	2547	07-0520	03-0050			
GETDYQ	254C	07-0540	07-0580			
GETDYR	255C	07-0610	07-0650			
GOGO	3692	1E-1130				
GTARG	33B5	1C-0380	00-0050	10-0050		
HEXAX	2009	02-0460	1E-0500	1F-0190	1F-0400	1F-0770
HEXOUT	2DCD	02-0470	07-1190	1F-0090	1F-1070	
HEXSP	2DEB		1F-0740			
HIPAR	001D	02-0090	1D-0570			
ID TAKETY	0062	02-0220	02-0230	1C-1320		
INSID	33FD	10-1040	11-0050	10 1710	10-1340	10-1370
INSXLO	344A	1C-1500	1C-1110 1C-1400	1C-1310 1C-1710	10-1340	10-13/0
INSXLR	345B	1C-1580	1C-1510	1C-1550		
LESS	35BE	1D-1150	1D-0920	1D-0960	1D-1030	
LESSR	35F4	1E-0270	1E-0110	1E-0150	11, 1000	
LOOPB	359E	1D-0970	1D-0870	IL VIOV		
LOOPT	3588	10-0850	1D-1180			
LOOPTR	35DO	1E-0070	1E-0300			
LOPAR	001A	02-0080	1D-0460	1D-0520	10-0550	11-0610
mental LIET	or or dell	was wwww	1D-0680	1D-0850	as my he he he he	an wath W
MAIN	25F8	09-0050				
MAINR	25FB	09-0060	10-0180			
MAYBE	3683	1E-1050	1E-1010			
MESSG	200A	02-0450	10-0160	10-0330	1F-0940	
MESSY	2740	02-0410	1F-0710	1F-1240		

MOVET	35AD	1D-1050	1D-1120			
MOVETR	35E3	1E-0170	1E-0240			
MOVEX	35AB	1D-1040	1D-0910			
MOVXR	35E1	1E-0160	1E-0100			
MTCRLF	33E4	1C-0780	13-0050			
MTCRLQ	33EB	1C-0810	1C-0790			
NEXTY	358F	1D-0890	1D-0950			
NEXTYR	35D2	1E-0080	1E-0140			
NHI	0016	02-0070	1C-1350			
NL.O	0015	02-0060	02-0070	1C-1380		
NOGO	3695	1E-1150	1E-1040	1E-1080	1E-1120	
NOPUNT	33B1	10-0310	1C-0260	1C-0280		
OBJECT	2EA8	19-0120			0	
OKLIN	36E7	1F-0530	1F-0500			
OKSQ	29B3	12-0060	1C-1780			
OUTCH	2DFO	02-0510	07-0550	1C-0300	1D-0190	1D-0260
OGIGH	A. A.11 V	VE VOIV	1D-0360	1F-0110	1F-0880	1F-0970
			1F-1140	TLOTTO	110000	110110
		A.M. A.M. 110 M.A.		4 A A A A A A A A A A A A A A A A A A A		
OUTPUT	2EAO	02-0530	1C-0890	10-0930	1 W. A A *** A	A *** A
OUTSP	2DEE	02-0500	07-1200	1D-0220	1D-0230	1D-0300
			1D-0310	1E-0770	1F-0050	1F-0060
			1F-0840	1F-0850	1F-0920	1F-1000
			1F-1110	1F-1180		
OUTMPD	33EC	1C-0890	18-0050			
OUTPDQ	33F3	10-0920	10-0950			
PAGE	0055	02-0190	02-0200			
PAGER	007B	02-0320	02-0330	1D-0650	1F-1010	1F-1060
PASS	004C	02-0150	02-0160	10-0250		
PGN	0056	02-0210	07-0990	1D-0760		
PGNR	007C	02-0330	02-0340	1D-0660	1D-0750	1F-0490
1. (31412	0070	V2 V00V	1F-0630	11 0000	0700	2.1 0 170
m.1 25 (21 25	v					
PLSXLO	33D1	10-0620	1C-0400			
PMODE	0063	02-0230	07-0450			
PRFLAG	004D	02-0160	070970	1C-0270	10-0780	1D-0130
PENT	36B7	1F-0260	1D-0740			
PRNTQ	36BD	1F-0280	1F-0330			
PRNTR	36C1	1F-0300	1F-0420			
PRNTS	36CB	1F-0340	1F-0310			
PRSYM	25A4	02-0380	1E-0440	1F-0340		
PRTID	2598	07-1190	19-0160			
PRTLIN	36DF	1F-0490	1E-0670	1E-0750	1E-0860	1F-0320
PRTSP	36EB	1F-0590	1E-0430	1F-0270	1F-0510	
PRTSQ	36F9	1F-0700	1D-0510	1F-0600		
PRISR	370E	1F-0840	1F-0610			
PRTSRA	3716	1F-0870	1F-0910			
PRTSRB	3725	1F-0940	1F-0990			
PRTSRC	3732	1F-1000	1F-0960			
				1E-0810		
PRTSYM	3698	1F-0050	1E-0600			
PRTXFQ	3609	1E-0440	1E-0690	1E-0880		
PRTXFR	3644	1E-0710	1E-0660	1E-0800		
PRTXFS	3648	1E-0730	1E-0850			
PRTXFT	3651	1E-0770	1E-0790			
PRTXFU	3659	1E-0810	1E-0740			
PRTXFV	3666	1E-0860	1E-0830			
PRTXFW	366E	1E-0890	1E-0700			
PRTXRF	3603	1E-0420	1D-0720			
PSSXLO	33BE	10-0460	10-0380			
QUEST	3745	1F-1110	OB-0050			
QUESTQ	374A	1F-1130	1F-1170			
QUESTR	375F	1F-1220	1F-1200			

RESSYM	3390	10-0100	09-0050			
RESTRT	2031	02-0370	07-1040	10-0630		
SAVE	007E	02-0350	1C-0480	10-0500	10-0520	10-0540
			10-0630	10-0650	10-0670	10-0690
			1C-0910	10-0940		
SETSY	25E6	02-0390	1D-0840	1E-0420	1F-0260	
SETSYR	2514	07-0110	1E-0060	1E-0510	1E-0610	
SHI	0040	02-0120	02-0130			
SL.O	003F	02-0110	02-0120	1C-1690	1C-1730	1D-0900
W L., W	VVWI	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	1D-0990	1D-1020	1D-1050	1D-1080
			1E-0460	1E-0490	1E-0530	1E-0570
			1F-0360	1F-0390	15-0000	1600/0
co co more co	3585	1D-0840	1D-0670	1D-1200		
SORTO						
SORTR SOURCE	35CD 2EA4	1E-0060 19-0080	1D-0710	1E-0320		
SOURCE	2EA5	19-0090				
SOURCE	ZEMJ ZEMJ	19-0070				
SPECIN	33A4	10-0250	OA-0050			
SSHI	0070	02-0250	02-0270	07-0170	07-0290	07-0310
ODILL	0070	0202.00	07-0340	0/01/0	0702.70	07-0010
cor c	AA / 1"	02-0250	02-0260	07-0120	07-0270	07-0280
SSLO	006F	02-0200				
			07.0320	1E-0090	1E-0170	1E-0200
			1E-0960	LE-0990	1E-1070	1E-1110
			1F-0080	1F-0130	1F-0160	
STRRST	3429	1C-1310	10-1160	10-1750		
STRXFQ	3472	1C-1760	10-1660			
STRXRF	345C	1C-1650	12-0050			
SXRI	0072	02-0280	02-0290	07-0180	10-0170	10-0490
			1C-0680	10.1430	10-1520	1C-1530
			10 - 1570			
SXLO	0071	02-0270	02-0280	07-0150	10-0150	10-0470
			1C-0700	10-1100	10 - 1150	10-1330
			10-1360	10-1390	10 - 1410	10 - 1500
			10 - 1560	10-1700	1C-1740	1E-0080
			1E-0190	1F-0220		
SYMBOL	2EA6	19-0100	1F-0720			
SYMF	2EA7	19-0110				
SYMID	asoo	02-0240	02-0250	10-0130	10-0140	10-1070
			1C-1130	1C-1180	10-1200	10-1210
			10 - 1230	1E-0550	1E-0580	1E-0620
			1E-0640	1E-0970	1E-1000	1E-1060
			1E-1090			
SYMMAX	2EAA	19-0140	1C-1540			
SYMXRF	2EA9	19-0130	07-0160	10-0160		
TABLE	353C	1D-0460	06-0050			
TABLEQ	3546	1D-0510	10-0480	10-0620		
TABLER	3540	1D-0630	10-0540			
TABLES	3563	1D-0640	1D-0500			
TABLET	357B	1D-0740	1D-0700			
TABLEU	357E	1D-0750	1D-0230			
TEKST	2567	07-0710	07-0540			
TEXT	259F	07-1260	1F-1130			
TOPPET	3500	1D-0130	14-0050			
TOPPTQ	3506	1D-0160	10-0210			
TOPPTE	3513	1D-0220	1D-0180			
TOPPTS	351B	1D-0250	1D-0290			
TOPPTT	352B	1D-0320	1D-0370			
TOPPTU	3539	1D-0380	10-0140	1D-0350		
XHI	0056	02-0200	02-0210	Th Anna		
XI.O	0055	02-0180	02-0210	10-0890	1D-0980	10-1010
	n or my har	11 mm 34 mm 201, 24,	n m w m / W	an ar ward w	arm or rear w	an en al. et de té

			10-1070	1D-1100		
XREIND	007D	02-0340	02-0350	1C-0110	10-1650	1F-1220
YCOM	0031	02-0100	1C-1760			
YSNOR	2797	02-0400	1F-1190			
TCBLF	258F	07-1090	07-1030	1C-0800	1F-0590	1F-1080
TORLEG	2591	07-1100	07-1120			

NL.O	0015	02-0060	02-0070	1C-1380		
NHI LOPAR	0016	02-0070	10-1350 1D-0460	1D-0520	1D-0550	10-0610
	001A LD-068(02-0080 1D-0850		100220	10-0330	10-0010
HIFAR	0010	02-0090	1D-0570			
YCOM	0031	02-0100	10-1760			
SLO	003F	02-0110	02-0120	10-1690	1C-1730	10-0900
~ L U	0001	AW ATTA	1D-0990	1D-1020	1D-1050	1D-1080
			1E-0460	1E-0490	1E-0530	1E-0570
			1F-0360	1F-0390	TE VOOV	re 70/7
SHI	0040	02-0120	02-0130	11-0370		
ELO	0041	02-0120	02-0130	10-0120	10-1050	1C-1080
la. 1 V.7	0014	V4. V4.WV	1C-1140	1D-0560	1F-0760	
EHI	0042	02-0140	1D-0580	1F-0750	21 0700	
PASS	004C	02-0150	02-0160	1C-0250		
PRFLAG	0040	02-0160	07-0970	1C-0270	10-0780	1D-0130
CNT	0054	02-0170	02-0180	07-0130	10-1140	1D-1190
			1E-0260	1E-0310	1E-0720	1E-0730
			1F-0290	1F-0300		
PAGE	0055	02-0190	02-0200			
XL.O	0055	02-0180	02-0190	1D-0890	1D-0980	1D-1010
			10-1070	1D-1100		
PGN	0056	02-0210	07-0990	1D-0760		
XHI	0056	02-0200	02-0210	aran we was		
ID	0062	02-0220	02-0230	10-1320		
PMODE	0063	02-0230	07-0450	de to de to the te		
SYMID	0060	02-0240	02-0250	10-0130	10-0140	1C-1070
	20 170 220 270	3 32 34 34 4 5	10-1130	1C-1180	10-1200	1C-1210
			1C-1230	1E-0550	1E-0580	1E-0620
			1E-0640	1E-0970	1E-1000	1E-1060
			1E-1090			
SSL.O	006F	02-0250	02-0260	07-0120	07-0270	07-0280
			07-0320	1E-0090	1E-0170	1E-0200
			1E-0960	1E-0990	1E-1070	1E-1110
			1F-0080	1F-0130	1F-0160	
SSHI	0070	02-0260	02-0270	07-0170	07-0290	07-0310
			07.0340			
SXL.O	0071	02-0270	02-0280	07-0150	10-0150	10-0470
			1C-0700	10-1100	1C-1150	10-1330
			10-1360	1C-1390	10-1410	10-1500
			1C-1560	10-1700	1C-1740	1E-0080
			1E-0190	1E-0220		
SXHI	0072	02-0280	02-0290	07-0180	10-0170	10-0490
			1C-0680	10-1430	1C-1520	1C - 1530
			1C-1570			
EXLO	0073	02-0290	02-0300	07-0330	10-0510	1C-0660
P** \$ 71.1 P	A A *** A	AM AMAA	1C-1420	/s /s /s		
EXHI	0074	02-0300	02-0310	07-0350	10-0530	10-0640
			10-1440			
DATE	0075	02-0310	02-0320	07-0620	1D-0250	1F-0870
PAGER	007B	02-0320	02-0330	1D-0650	1F-1010	1F-1060
PGNR	007C	02-0330	02-0340	1D-0660	1D-0750	1F-0490
\/ P'\ P'' 'P' 'P' \ \ 1 V'.	A A *** **	AA AW AA	1F-0630	AM AAAA	4 m 4 4 m m	april a mana
XRFIND	007D	02-0340	02-0350	10-0110	10-1650	1F-1220
SAVE	007E	02-0350	1C-0480	10-0500	10-0520	10-0540
			10-0630	10.0650	10-0670	10-0690
BUFFER	0100	02-0360	10-0910	10-0940	27 (48)	
COLD	2004	02-0360	07-0610 05-0050	1C-1770		
RESTRT	2031	02-0370	07-1040	1D-0630		
1 Thurs 2 1 TY 1	A. W . J. L.	VAL VW/V	A1 7 A41 A	TT 0000		

DADAR 2526 07-0260 03-0070 07-0520	SETSYR DADSR DADXR	2514 2526 2528	07-0110 07-0240 07-0250	1E-0060 1E-0270 1E-0290	1E-0510 1E-0820	1E-0610 1E-1020	
TEINST 2567 07-0710 07-0540 ENDERGA 2575 07-0970 07-0100 ENDERGA 2575 07-1070 07-1020 ENDERGA 2585 07-1030 07-1030 07-1030 ENDERGA 2585 07-1070 07-1030 07-1030 ENDERGA 2585 07-1070 07-1130 07-1120 ENDERGA 2587 07-1100 07-1120 ENDERGA 2587 07-1100 07-1120 ENTERTA 2595 07-1100 15-0140 ENTERTA 2595 07-1120 ENTERTA 2595 07-0050 ENTERTA	DADAR CLDCRL GETDAY	253E 2547	07-0420 07-0520	03-0050 07-0580	07-0520		
ENDPEG 2589 07-1030 07-1000 ENDPES 2586 07-1040 07-0980 TCRLF 258F 07-1100 07-1030 TCRLF 258F 07-1100 07-1030 TCRLF 259F 07-1100 07-1120 PRTID 2598 07-1170 19-0160 TEXT 259F 07-1260 1F-1130 TEXT 259F 07-1260 1F-0340 TEXT 259F 07-1260 1F-0400 1F-0400 MAIN 258 09-0050 MAIN 25F8 09-0050 1D-0840 1E-0420 1F-0260 MAIN 25F8 09-0050 1F-0170 1F-0260 MAIN 25F8 09-0050 1F-0170 1F-0260 MESSY 2760 02-0410 1F-0710 1F-0260 TEXT 259F 07-0400 1F-0170 1F-0400 TEXT 259F 07-0400 1C-0180 TEXT 259F 07-020 1D-0150 1F-0260 TEXT 259F 07-020 1D-0150 1F-0260 TEXT 259F 07-020 1D-0150 1F-0260 TEXT 259F 07-020 1D-020 1F-0200 1F-0410 TEXT 259F 07-020 1D-020 1D-0300 TEXT 259F 07-020 1D-020 1D-0300 TEXT 259F 07-040 1D-0300 1F-0300 TEXT 259F 07-040 1D-0300 1F-0300 1F-0300 TEXT 259F 07-040 1D-0300 1D-0300 1F-0300 1F-0300 TEXT 259F 07-040 1D-0300 1D-0300 1F-0300 1F-0300 TEXT 259F 07-040 1D-0300 1D-0300 1F-0300 1F-0300 1F-0300 TEXT 259F 07-040 1D-0300 1D-0300 1F-0300 1F-	TEKST	2567	07-0710	07-0540			
TCRLF 258F 07-1090 07-1030 1C-0800 1F-0590 1F-1080 TCRLF 259F 07-1100 07-1120 PRTID 2598 07-1190 19-0160 TEXT 259F 07-1260 1F-1130 TRSYM 25A4 02-0380 1E-0440 1F-0340 SETSY 25E6 02-0390 1D-0840 1E-0420 1F-0260 MAIN 25F8 09-0050 MAINR 25F8 09-0050 MESSY 27A0 02-0410 1F-0710 1F-1240 ADDS 27C1 02-0420 1D-1150 1E-0680 1E-0870 1F-0410 ADDAX 27C3 02-0430 1D-1150 1E-0680 1E-0870 1F-0410 ADTABL 2897 11-0060 1C-1250 GETAG 298B 02-0440 1C-0390 MKSQ 2983 12-0060 1C-1780 MESSG 20A 02-0450 1D-0160 1F-0190 1F-0400 1F-0770 MEXAX 2DC9 02-0460 1C-0500 1F-0190 1F-0400 1F-0770 MEXAX 2DC9 02-0460 07-0430 1F-0909 1F-1070 CRLF 2DE7 02-0480 07-0430 1F-0909 1F-0770 MEXSP 2DE8 02-0490 1F-0740 07-1100 1F-0850 1F-0960 MEXSP 2DE8 02-0500 07-0550 1D-0330 1F-0920 1F-0060 MEXSP 2DE8 02-0500 07-0550 1D-0330 1F-0920 1F-0060 MEXTP 2DE8 02-0500 07-0550 1D-0300 1F-0990 SURCM 2EA3 19-0070 SURCM 2EA3 19-0070 SURCE 2EA4 19-00100 07-0550 1C-0310 BUFIN 2EA1 02-0520 07-0160 1C-0930 SURCM 2EA3 19-0070 SURCE 2EA5 19-0090 SYMRDL 2EA6 19-0100 07-0150 1C-0280 SYMRDL 2EA6 19-0100 07-0150 1C-0280 SYMRP 2EA7 19-0110 0RJECT 2EA8 19-0120 SYMRRF 2EA9 19-0130 07-0160 1C-0260 1C-0280	See A Section 10 100 100 100 100 100 100 100 100 100			07-1000	1D-0770		
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SYMF 2EA7 19-0110 OBJECT 2EA8 19-0120 SYMXRF 2EA9 19-0130 07-0160 1C-0160 SYMMAX 2EAA 19-0140 1C-1540 ERID 2EAC 19-0160 1A-0050 RESSYM 3390 1C-0100 09-0050 SPECIN 33A4 1C-0250 0A-0050 NOPUNT 33B1 1C-0310 1C-0260 1C-0280	200		(49) (F) 20 500	1F-0720			
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SYMMAX 2EAA 19-0140 1C-1540 ERID 2EAC 19-0160 1A-0050 RESSYM 3390 1C-0100 09-0050 SPECIN 33A4 1C-0250 0A-0050 NOPUNT 33B1 1C-0310 1C-0260 1C-0280					10 01/0		
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NOPUNT 33B1 1C-0310 1C-0260 1C-0280							
0.111177 0.070 7.0 0.00				011-0050	10-0050	*	
PSSXLO 33BE 1C-0460 1C-0380	PSSXL	O 33BE	1C-0460	10-0380			

PLSXL0	3301	10-0620	10-0400			
MTCRLF	33E4	1C-0780	13-0050			
MTCRLQ	33EB	1C-0810	10-0790			
OUTMPD	33EC	10-0890	18-0050			
OUTPDQ	33F3	10-0920	10-0950			
INSID	33FD	1C-1040	11-0050			
STRRST	3429	10-1310	10-1160	1C-1750		
INSXLO	344A	1C-1500	10-1110	10-1310	10-1340	10-1370
3. 1 (()) (1 ()	S. 7 111	de to de to te	1C-1400	1C-1710		
INSXLR	345B	1C-1580	1C-1510	10-1550		
STRXRF	345C	1C-1650	12-0050	A 1.7 A 1.6 1.6 1.6		
STRXFQ	3472	10-1760	1C-1660			
TOPPET	3500	1D-0130	14-0050			
TOPPTQ	3506	1D-0130	1D-0210			
TOPPTR	3513	1D-0160 1D-0220	1D-0180			
TOPPTS	351B	1D-0250	1D-0290			
TOPPTT	352B	1D-0320	1D-0370			
TOPPTU	3539	1D-0320	1D-03/0	1D-0350		
TABLE	353C	1D-0460	06-0050	110		
TABLEQ	3546	1D-0510	1D-0480	1D-0620		
		1D-0630	10-0540	TILLADEA		
TABLER	3560		1D-0500			
TABLES	3563	1D-0640				
TARLET	3578	1D-0740	1D-0700			
TABLEU	357E	1D-0750	1D-0730			
SORTQ	3585	1D-0840	1D-0670	1D-1200		
LOOPT	3588	1D-0850	1D-1180			
NEXTY	358F	1D-0890	1D-0950			
LOOPB	359E	1D-0970	1D-0870			
MOVEX	35AB	11-1040	10-0910			
MOVET	35AD	10-1050	1D-1120			
LESS	35BE	10-1150	10-0920	1D-0960	10-1030	
SORTR	35CD	1E-0060	1D-0710	1E-0320		
LOOPTR	3500	1E-0070	1E-0300			
NEXTYR	35D2	1E-0080	1E-0140		8	
MOVXR	35E1	1E-0160	1E-0100		,	
MOVETR	35E3	1E-0170	1E-0240			
LESSR	35F4	1E-0270	1E-0110	1E-0150		
PRTXRF	3603	1E-0420	1D-0720			
PRIXEQ	3609	1E-0440	1E-0690	1E-0880		
PRTXFR	3644	1E-0710	1E-0660	1E-0800		
PRTXFS	3648	1E-0730	1E-0850			
PRTXFT	3651	1E-0770	1E-0790			
PRTXFU	3659	1E-0810	1E-0740			
PRTXFV	3666	1E-0860	1E-0830			
PRIXEW	366E	1E-0890	1E-0700			
FNDXRF	366F	1E-0950	1E-0590	1E-0650	1E-0840	1E-1030
FNDXFQ	367C	1E-1020				
MAYBE	3683	1E-1050	1E-1010			
GOGO	3692	1E-1130				
NOGO	3695	1E-1150	1E-1040	1E-1080	1E-1120	
PRTSYM	3698	1F-0050	1E-0600	1E-0810		
PRNT	36B7	1F-0260	1D-0740			
PRNTQ	36BD	1F-0280	1F-0330			
PRNTR	36C1	1F-0300	1F-0420			
PRNTS	36CB	1F-0340	1F-0310			
PRTLIN	36DF	1F-0490	1E-0670	1E-0750	1E-0860	1F-0320
OKLIN	36E7	1F-0530	1F-0500			
PRTSP	36EB	1F-0590	1E-0430	1F-0270	1F-0510	
PRTSQ	36F9	1F-0700	1D-0510	1F-0600		
PRTSR	370E	1F-0840	1F-0610			

PRTSRA	3716	1F-0870	1F-0910
PRISRB	3725	1F-0940	1F-0990
PRISRC	3732	1F-1000	1F-0960
QUEST	3745	1F-1110	OB-0050
QUESTQ	374A	1F-1130	1F-1170
QUESTR	375F	1F-1220	1F-1200